

1945

# University of Vermont, College of Medicine Bulletin

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THE MEDICAL COLLEGE

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❧ BULLETIN OF THE ❧  
UNIVERSITY OF VERMONT  
AND STATE AGRICULTURAL COLLEGE  
BURLINGTON - - - - - VERMONT  
VOLUME XLII - - - OCTOBER 1945 - - - NUMBER 4

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THE COLLEGE OF MEDICINE NUMBER

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UNIVERSITY OF VERMONT

BULLETIN OF THE

UNIVERSITY OF VERMONT

AND STATE AGRICULTURAL COLLEGE

ST. JOHNSBURY, VERMONT

FOR THE YEAR 1900

NUMBER 1

THE COLLEGE OF AGRICULTURE

ST. JOHNSBURY, VERMONT

1900

ST. JOHNSBURY, VERMONT

1900

## CALENDAR

1945-1946

This calendar is subject to such changes as return to a peace-time program may demand. Entering class in 1946 will probably be admitted in September.

*July 2, Monday.* Examinations for Advancement in Course.

*July 5, Thursday.* Enrollment.

*July 6, Friday.* Regular Exercises begin.

*July 12, Thursday.* Registration ends.

*October 29, Monday, to November 9, Friday.* Midyear Examinations.

*November 12, Monday.* Payment of Fees: Second Semester begins.

*November 22, Thursday.* Thanksgiving.

*December 22, Saturday, 12:00 noon to January 7, Monday, 8:30 a.m.*

Christmas Recess.

*March 18, Monday, to March 29, Friday.* Final Examinations

*April 3, Wednesday.* Commencement.

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# ADMINISTRATION

## THE BOARD OF TRUSTEES

### *The University of Vermont and State Agricultural College*

JOHN SCHOFF MILLIS, B.S., M.S., PH.D., LL.D.	President	} Ex-Officio
<i>His Excellency</i>		
MORTIMER ROBINSON PROCTOR, A.B., LL.D.	Governor	

### *On the Part of the University of Vermont*

#### *Elected*

1941	LEVI PEASE SMITH, A.B.	Burlington, Vt.	} 1942
1941	MAURICE LESLIE KELLEY	Barre, Vt.	
1942	PEER PRESCOTT JOHNSON, A.B., M.D.	15 Washington St., Beverly, Mass.	
			} to
			} 1946
1943	HERBERT ROBBE PIERCE, B.S.	Montpelier, Vt.	} 1942
1941	HORACE HENRY POWERS, PH.B.	St. Albans, Vt.	
1941	JOSEPH BLAINE JOHNSON, B.S.	Springfield, Vt.	
			} to
			} 1948
1944	LYMAN ALLEN, A.B., M.D.	Burlington, Vt.	} 1944
1944	HENRY TRUMAN WAY, PH.B.	Burlington, Vt.	
1944	JOHN STRATTON WRIGHT, A.B.	University Club, New York City	
			} to
			} 1950

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1941	JAMES EDWARD MANAHAN	St. Albans, Vt.	
1939	WILLIAM CHESTER WALKER, PH.B.	Cabot, Vt.	
			} to
			} 1947
1941	SMITH SEELEY REYNOLDS	Middlebury, Vt.	} 1943
1943	CARROLL LEANDER COBURN, B.S.	E. Montpelier, Vt.	
1941	ASA SCHOONMACHER BLOOMER, PH.B.	W. Rutland, Vt.	
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			} 1949
1941	WALLACE MACFIE FAY	Proctor, Vt.	} 1945
1941	CLEON ARTHUR PERKINS, B.S.	Rutland, Vt.	
1945	NORTON BARBER, A.B.	Bennington, Vt.	
			} to
			} 1951



## STANDING COMMITTEES

*Admissions:* The Dean\*, Dr. Buttles, Professors Jordan and Pierce.

*Advancement:* Drs. Pierce\*, Amidon, Dreyer, Durfee, Mackay, Newhall, Pearson, Sichel and Twitchell.

*Curriculum for Undergraduate Instruction:* Drs. Amidon\*, Dreyer, Mackay, Pearson and Pierce.

*Library:* Drs. Pierce\*, Corbin, Gladstone, Harwood and Sichel.

*Postgraduate Instruction:* Drs. Mackay\*, Amidon, Buttles and Durfee.

*Research:* Drs. Dunihue\*, Pearson, Pierce, Raab and Stultz.

*Senior Comprehensive:* Drs. Amidon\*, Buttles, Durfee and Mackay.

*Sophomore Comprehensive:* Drs. Newhall\*, Amidon, Buttles, Dreyer, Mackay, Pierce and Sichel.

\* Chairman of Committee.



# COLLEGE OF MEDICINE

## FACULTY AND OTHER OFFICERS

### ADMINISTRATIVE OFFICERS

- JOHN SCHOFF MILLIS.....*President of the University*  
B.S., University of Chicago, 1924; M.S., 1927; Ph.D., 1931; LL.D., Middlebury, 1942.
- WILLIAM EUSTIS BROWN.....*Dean, Professor of Preventive Medicine*  
Ph.B., Lafayette, 1909; C.P.H., Harvard-MIT, 1915; M.D., Harvard, 1920.
- \*CLARENCE HENRY BEECHER.....*Dean, Professor of Medicine*  
M.D., University of Vermont, 1900.
- CHESTER ALBERT NEWHALL.....*Secretary of the Faculty, Associate*  
A.B., Northwestern College, 1924; *Professor of Anatomy*  
M.D., University of Vermont, 1928.

### PROFESSORS EMERITI

- LYMAN ALLEN .....*Professor Emeritus of Surgery*  
A.B., University of Vermont, 1893; M.D., 1896.
- THOMAS STEPHEN BROWN.....*Professor Emeritus of Anatomy*  
M.D., University of Vermont, 1904.
- CHARLES FRANCIS DALTON.....*Professor Emeritus of Public Health*  
M.D., University of Vermont, 1903.
- FRED KINNEY JACKSON.....*Professor Emeritus of Physiology*  
A.B., University of Vermont, 1897; M.D., 1899.
- CHARLES KIMBALL JOHNSON.....*Professor Emeritus of Pediatrics*  
M.D., University of Vermont, 1899.
- DAVID MARVIN.....*Professor Emeritus of Pharmacology*  
M.D., University of Vermont, 1900.
- CHARLES PERKINS MOAT...*Assistant Professor Emeritus of Public Health*  
B.S., Massachusetts Institute of Technology, 1896.
- GEORGE MILLAR SABIN.....*Professor Emeritus of Clinical Surgery*  
B.S., University of Vermont, 1896; M.D., 1900.
- CHARLES FLAGG WHITNEY.....*Professor Emeritus of Biochemistry*  
B.S., University of Vermont, 1897; *and Toxicology*  
M.D., 1903; M.S., 1904.

\* Resigned as Dean, as of September 1, 1945.

## PROFESSORS

- CLARENCE HENRY BEECHER ..... *Professor of Medicine*  
M.D., University of Vermont, 1900.
- ERNEST HIRAM BUTTLES ..... *Professor of Pathology*  
A.B., University of Vermont, 1901; M.D., 1908.
- HOVEY JORDAN ..... *Professor of Histology and Embryology*  
Ph.B., University of Vermont, 1913; M.S., 1914; A.M., Harvard, 1916.
- EMMUS GEORGE TWITCHELL ..... *Professor of Ophthalmology,*  
A.B., Queen's University, Canada, 1902;      *Otolaryngology and Rhinology*  
M.D., C.M., 1906.
- OLIVER NEWELL EASTMAN ..... *Professor of Gynecology*  
M.D., University of Vermont, 1908.
- HERBERT ASHLEY DURFEE ..... *Professor of Obstetrics*  
A.B., University of Vermont, 1917; M.D., 1920.
- \*ARTHUR BRADLEY SOULE, JR. .... *Professor of Radiology*  
A.B., University of Vermont, 1925; M.D., 1928.
- HAROLD BARNARD PIERCE ..... *Professor of Biochemistry*  
B.S., Massachusetts State College, 1917; M.S., Pennsylvania State College, 1921;  
Ph.D., University of Rochester, 1928.
- CHARLES EUGENE FOGG, LT. COL. U.S.A. .... *Professor of Medico-*  
M.D., Bowdoin, 1914.      *Military Science and Commandant of Medical Unit*
- ALBERT GEORGE MACKAY ..... *Professor of Surgery*  
B.S., University of Vermont, 1929; M.D., 1932.
- †WENDELL EVERETT JAMES ..... *Professor of Bacteriology and*  
A.B., Brown University, 1917; M.S., 1934;      *Clinical Pathology*  
M.D., University of Vermont, 1938.
- BJARNE PEARSON ..... *Professor of Pathology*  
B.S., University of Minnesota, 1927;  
M.B., 1929; M.D., 1930; M.S. (Med.), 1932.
- FERDINAND JACOB MORRIS SICHEL ..... *Professor of Physiology*  
B.Sc., McGill, 1928; Sc.M., New York University, 1930; Ph.D., 1934.
- NICHOLAS BERNARD DREYER ..... *Professor of Pharmacology*  
B.A., Victoria, 1914; B.A., Oxford, 1922; M.A., 1925; M.R.C.S.; L.R.C.P.
- ELLSWORTH LYMAN AMIDON ..... *Professor of Medicine*  
B.S., Tufts College, 1927; M.D., University of Vermont, 1932;  
M.S. (Med.), University of Pennsylvania, 1938.
- WILHELM RAAB ..... *Professor of Experimental Medicine*  
M.D., University of Vienna, 1920; M.D., German University of Prague, 1926.
- RUPERT ADDISON CHITTICK ..... *Professor of Psychiatry*  
B.S., University of Nebraska, 1923; M.A., 1924; M.D., Harvard Medical School, 1929.
- WILLIAM EUSTIS BROWN ..... *Professor of Preventive Medicine*  
Ph.B., Lafayette, 1909; C.P.H., Harvard-MIT, 1915; M.D., Harvard, 1920

\* Absent on military leave.

† Resigned as of July 31, 1945.

## ASSOCIATE PROFESSORS

- ROY EDWARD CORLEY.....*Associate Professor of Pediatrics*  
A.B., Holy Cross College, 1921; M.D., University of Vermont, 1925.
- FRED WILLIAMS DUNIHIUE.....*Associate Professor of Histology and*  
A.B., Wabash College, 1929; M.S., New York University, 1931; *Embryology*  
Ph.D., 1934.
- \*PAUL KENDRICK FRENCH.....*Associate Professor of Clinical Medicine*  
Ph.B., University of Vermont, 1920; M.D., 1923.
- CHESTER ALBERT NEWHALL.....*Associate Professor of Anatomy*  
A. B., Northwestern College, 1924; M.D., University of Vermont, 1928.
- WALTER ALVA STULTZ.....*Associate Professor of Anatomy*  
A.B., Acadia, 1927; Ph.D., Yale, 1932.

## ASSISTANT PROFESSORS

- \*JOHN ABAJIAN, JR.....*Assistant Professor of Anesthesia*  
M.D., New York Medical College, 1937.
- BENJAMIN DYER ADAMS.....*Assistant Professor of Surgery*  
M.D., University of Vermont, 1908.
- \*JESSE OGLEVEE ARNOLD, II...*Assistant Professor of Clinical Neurology*  
B.S., Pennsylvania State College; M.D., Temple University, 1932.
- LOUIS BENSON.....*Assistant Professor of Preventive Medicine*  
B.E.E., Northeastern University School of Engineering, 1924;  
M.D., Tufts Medical College, 1932.
- \*PAUL DENNISON CLARK.....*Assistant Professor of Pediatrics*  
M.D., University of Vermont, 1926.
- STUART STARNES CORBIN.....*Assistant Professor of Pediatrics*  
B.S., University of Vermont, 1931; M.D., 1936.
- EDWARD PERRY DISBROW....*Assistant Professor of Clinical Dermatology*  
M.D., University of Maryland, 1908.
- LESTER MAHAN FELTON.....*Assistant Professor of Clinical Urology*  
B.S., Dartmouth, 1919; M.D., Cornell, 1922.
- †PAUL FREDRIC FENTON.....*Assistant Professor of Biochemistry*  
B.S., University of Rochester, 1938; M.S., University of Vermont, 1940;  
Ph.D., 1944.
- WINTHROP MAILLOT FLAGG.....*Assistant Professor of Urology*  
M.D., University of Vermont, 1934.
- FRED W. GALLAGHER....*Assistant Professor of Bacteriology and Clinical*  
A.B., Western Reserve University, 1929; *Pathology*  
M.A., Ohio State University, 1936; Ph.D., 1939.
- ARTHUR GLADSTONE.....*Assistant Professor of Clinical Surgery*  
B.S., University of Vermont, 1928; M.D., 1931.
- \* Absent on military leave.  
† Resigned as of November 1, 1945.

- THEODORE HENRY HARWOOD.....*Assistant Professor of Medicine and*  
A.B., Hamilton College, 1932; *Director of Dispensary*  
M.D., University of Vermont, 1936.
- EDWIN EVERETT HAYS.....*Assistant Professor of Biochemistry*  
B.S., University of Denver, 1937; M.S., University of Colorado, 1939;  
Ph.D., University of Chicago, 1942.
- ARTHUR RUSH HOGAN.....*Assistant Professor of Clinical Surgery*  
A.B., University of Vermont, 1919; M.D., 1922.
- PETER PAUL LAWLOR.....*Assistant Professor of Otolaryngology and*  
M.D., University of Vermont, 1920. *Rhinology and Clinical Instructor*  
*in Ophthalmology*
- CLIFFORD SHATTUCK LEONARD.....*Assistant Professor of Pharmacology*  
Ph.B., Yale, 1915; M.S., 1917; Ph.D., Wisconsin, 1920.
- KARL CORNELIUS McMAHON.. *Assistant Professor of Ophthalmology and*  
B.S., University of Vermont, 1919; M.D., 1922. *Clinical Instructor in*  
*Otolaryngology and Rhinology*
- EDWARD DOUGLAS MCSWEENEY.....*Assistant Professor of Gynecology*  
A.B., University of Vermont, 1919; M.D., 1922.
- ROBERT LELAND MAYNARD....*Assistant Professor of Orthopedic Surgery*  
M.D., University of Vermont, 1911.
- THOMAS GAETANO MORRIONE.....*Assistant Professor of Pathology*  
B.S., Columbia, 1937; M.D., Long Island, 1941.
- ALFRED SMITH O'CONNOR.....*Assistant Professor of Clinical Pediatrics*  
A.B., Holy Cross College, 1914; M.D., Tufts Medical College, 1918.
- OSCAR SYLVANDER PETERSON, JR.....*Assistant Professor of Radiology*  
M.D., University of Vermont, 1936.
- \*WALFORD TUPPER REES.....*Assistant Professor of Surgery*  
M.D., University of Vermont, 1924.
- WILLIAM VAN BOGAERT ROBERTSON.....*Assistant Professor of*  
M.E., Stevens Institute of Technology, 1934; *Experimental Medicine*  
Ph.D., University of Freiburg, 1937.
- EDWARD JAMES ROGERS.....*Assistant Professor of Clinical Medicine*  
B.S., The Citadel, 1896; M.D., South Carolina, 1908; M.D., Columbia, 1912.
- JAMES EVANS ROY.....*Assistant Professor of Psychiatry*  
A.B., Yale, 1935; M.D., Harvard, 1939.
- WILLIAM JOSEPH SLAVIN, JR.... *Assistant Professor of Clinical Obstetrics*  
B.S., University of Vermont, 1933; M.D., 1935. *and Gynecology*
- ERNEST STARK.....*Assistant Professor of Pathology*  
B.S., Columbia, 1933; M.D., Long Island, 1939.
- FREDERICK CHARLES THORNE.....*Assistant Professor of Psychiatry*  
A.B., Columbia, 1930; A.M., 1931; Ph.D., 1934; M.D., Cornell, 1938.

\* Absent on military leave.

- KEITH FRANK TRUAX ..... *Assistant Professor of Surgery*  
B.S., University of Vermont, 1928; M.D., 1931.
- HIRAM EUGENE UPTON ..... *Assistant Professor of Clinical Medicine*  
B.S., St. John's College, 1924; M.D., University of Maryland, 1927.
- FOSTER LANE VIBBER ..... *Assistant Professor of Clinical Neurology*  
M.D., Tufts Medical College, 1929.

## VISITING PROFESSORS

- DAVID MARSH BOSWORTH ..... *Visiting Professor of Orthopedic Surgery*  
A.B., University of Vermont, 1918; M.D., 1921.
- THOMAS WRIGHT MOIR CAMERON ..... *Visiting Professor of*  
M.A., Edinburgh, 1922; Ph.D., London, 1924; *Tropical Medicine*  
D.Sc., Edinburgh, 1926.
- RICHARD HOLLIS OVERHOLT ..... *Consultant in Thoracic Surgery*  
A.B., Nebraska State Teachers College, 1920; M.D., University of Nebraska, 1926.
- ADOLPHUS DUNCAN ROOD ..... *Visiting Professor of Bronchoscopy*  
M.D., University of Vermont, 1908.
- EUGENE FREDERICK TRAUB ..... *Visiting Professor of Dermatology*  
B.S., University of Michigan, 1916; M.D., 1918.

## INSTRUCTORS

- ROBERT BASCOM AIKEN ..... *Instructor in Industrial Hygiene*  
Ph.B., University of Vermont, 1931; M.S., 1933; M.D., 1937.
- NATHAN RENWICK CALDWELL ..... *Instructor in Clinical Radiology*  
M.D., University of Vermont, 1914.
- \* JEROME JOSEPH COHEN ..... *Instructor in Clinical Pediatrics*  
A.B., Tufts, 1927; M.D., 1931.
- ROBERT DOWNING COX ..... *Instructor in Clinical Medicine*  
A.B., Amherst, 1934; M.D., Tufts, 1938.
- \* ALBERT JAMES CRANDALL ..... *Instructor in Clinical Surgery*  
B.S., University of Vermont, 1930; M.D., 1933.
- THOMAS PATRICK CUNNINGHAM ..... *Instructor in Clinical Pediatrics*  
M.D., Tufts Medical College, 1918.
- LOUIS WILLIAM ESPOSITO ..... *Instructor in Urology*  
B.S., University of Notre Dame, 1931; M.D., Johns Hopkins University, 1935.
- JOHN SEELEY ESTABROOK ..... *Instructor in Clinical Pediatrics*  
B.S., University of Vermont, 1929; M.D., 1933.
- \* HENRY MAURICE FARMER ..... *Instructor in Preventive Medicine and*  
B.S., University of Vermont, 1933; M.D., 1937. *Public Health*
- J. LOUIS PHILIPPE FOREST ..... *Instructor in Clinical Psychiatry*  
A.B., University of Montreal, 1920; M.D., 1925.
- MERVIN FOSSNER ..... *Instructor in Clinical Pediatrics*  
M.D., Long Island Medical College, 1921.

\* Absent on military leave.

- ERALD FAIRBANKS FOSTER.....*Instructor in Public Health*  
M.D., University of Vermont, 1927.
- KARL KENNETH GRUBAUGH.....*Instructor in Bacteriology and*  
A.B., Ohio State, 1938; M.A., 1941. *Clinical Pathology*
- BENTON HOLM.....*Instructor in Surgery*  
A.B., Augustana College, 1927; M.D., Northwestern, 1933.
- \*FRED SCOTT KENT.....*Instructor in Clinical Medicine*  
M.D., University of Vermont, 1919.
- MARGUERITE KINGSBURY.....*Instructor in Medicine*  
A.B., Cornell University, 1926; M.D., 1930.
- ELIZABETH KUNDERT.....*Instructor in Psychiatry*  
B.S., University of Wisconsin, 1920; M.S., 1924;  
M.D., Woman's Medical College of Pennsylvania, 1926.
- HENRY ABNER LADD.....*Instructor in Clinical Psychiatry*  
M.D., University of Vermont, 1901.
- PAUL GREEN LEFEVRE.....*Instructor in Physiology*  
A.B., Johns Hopkins, 1940; Ph.D., University of Pennsylvania, 1945.
- HYMAN BERNARD LEVINE.....*Instructor in Clinical Medicine*  
B.S., University of Vermont, 1930; M.D., 1939.
- JOHN FREDERICK LYNCH.....*Instructor in Clinical Surgery*  
B.S., University of Vermont, 1931; M.D., 1934.
- KATHERINE ELLA MCSWEENEY.....*Instructor in Clinical Medicine*  
A.B., University of Vermont, 1922; A.M., Columbia, 1924;  
M.D., University of Vermont, 1930.
- \*JAMES PATRICK MAHONEY.....*Instructor in Clinical Medicine*  
M.D., University of Vermont, 1932.
- HAROLD EDWARD MEDIVETSKY.....*Instructor in Clinical Medicine*  
B.S., University of Vermont, 1929; M.D., 1932.
- HENRY LEE MILLS.....*Instructor in Public Health*  
D.V.M., Grand Rapids Veterinary College, 1911.
- SISTER CORONA PARENTEAU, R. N.....*Instructor in Clinical Pathology*
- \*NICHOLAS SALVATORE SCARCELLO.....*Instructor in Clinical Urology*  
M.D., Tufts Medical College, 1930.
- \*CLARENCE JESS SPEAS.....*Instructor in Oral Hygiene and Dental Medicine*  
D.D.S., Marquette University, 1935.
- CHARLES IVES TAGGART.....*Instructor in Oral Hygiene and Dental*  
D.M.D., Tufts Dental School, 1921. *Medicine*
- CHRISTOPHER MARLOWE TERRIEN.....*Instructor in Clinical Medicine*  
M.D., University of Vermont, 1936.
- \*LOUIS GEORGE THABAULT.....*Instructor in Surgery*  
M.D., University of Vermont, 1930.
- EDWARD LAWRENCE TRACY.....*Instructor in Public Health*  
B.S., University of Vermont, 1926.

\* Absent on military leave.



- \*GEORGE CHANDLER TULLY.....*Instructor in Clinical Urology*  
B.S., Dartmouth, 1927; M.D., University of Vermont, 1931.
- MARSHALL COLEMAN TWITCHELL, JR.....*Instructor in Ophthalmology*  
A.B., Williams, 1934; M.D., Harvard, 1938.
- \*CONRAD WALL.....*Instructor in Clinical Neurology*  
A.B., University of Alabama, 1925; M.D., Harvard, 1929.
- CLAIRE WALTER.....*Instructor in Bacteriology and Clinical Pathology*  
B.S., Rutgers University, 1930.
- ARTHUR DOWNING WARD.....*Instructor in Clinical Medicine*  
A.B., Dartmouth, 1934; M.D., Tufts, 1938.
- UBALDO EDWARD ZAMBARANO.....*Instructor in Clinical Medicine*  
B.S., Georgetown University, 1920; M.D., 1924.

## FELLOWS

- ELIZABETH CHARLOTTE PAULSEN.....*Fellow in Biochemistry*  
A.B., Skidmore College, 1944.
- MARY LORRAINE GANNON.....*Fellow in Pathology*  
B.S., University of Vermont, 1942; M.D., 1944.
- MATTHEW TALMADGE MOOREHEAD.....*Fellow in Surgery*  
B.S., Ohio Wesleyan, 1919; M.D., Western Reserve, 1923.
- DEANE FREMONT MOSHER.....*Fellow in Pathology*  
B.S., University of Vermont, 1938; M.D., 1941.
- \*BURNETT SHELDON RAWSON.....*Fellow in Pathology*  
M.D., University of Vermont, 1939.

## ASSISTANTS

- HARRY JOSEPH ANTONIEWICZ.....*Assistant in Surgery*  
B.S., University of Vermont, 1937; M.D., 1940.
- CLARENCE EDWARD BOMBARD.....*Assistant in Surgery*  
B.S., University of Vermont, 1934; M.D., 1937.
- MRS. BETTY HAWKINSON DOHERTY.....*Assistant in Biochemistry*  
A.B., University of Vermont, 1944.
- \*WILLIAM HENRY HEININGER.....*Assistant in Medicine*  
M.D., University of Vermont, 1939.
- MRS. FRANCES HUARD.....*Research Assistant in Pharmacology*  
B.S., University of Vermont, 1944.
- \*JOHN HENRY MCCREA.....*Assistant in Medicine*  
B.S., University of Vermont, 1935; M.D., 1938.
- MRS. CHERYL PARKHURST.....*Research Assistant in Physiology*
- GEORGE JOSEPH GABUZDA, JR.....*Resident in Medicine*  
A.B., Lehigh 1941; M.D., Harvard, 1944.

## SPECIAL LECTURER

- AARON HINMAN GROUT.....*Lecturer in Medical Jurisprudence*  
Ph.B., University of Vermont, 1901.



## LIBRARIAN

MRS. EILEEN G. MCGINLEY, *Librarian, Medical Library* Essex Junction

\* Absent on military leave.

## TECHNICIANS

JOHN CHARLES BOLDOSSER, *Laboratory Assistant in Department of Pathology* 26 Germain Street

\*DALLAS RICHARD BOUSHEY, *Technician in Department of Anatomy*

MRS. BLANCHE DAY, *Laboratory Assistant in Department of Bacteriology and Clinical Pathology* 56 Pomeroy Street

EDWARD JOSEPH DELEGE, *Technician in Department of Biochemistry* 9 LeClair Ave., Winooski

JOSEPH LOUIS GAGNON, *Technician in Departments of Pharmacology and Physiology* 100 King Street

LEWIS GARDNER IRWIN, *Technician in Department of Anatomy* 260 S. Union Street

WILLIAM STEPHEN KENNY, *Technician in Animal House* 76 N. Union Street

PAUL EMILE LAHAIE, *Technician in Department of Pathology* 30 Chase Street

FRANCIS CHARLES MALLORY, *Technician in Department of Anatomy* 86 Caroline Street

LEDA MYERS, *Technician in Department of Bacteriology and Clinical Pathology* 112 Park Street

ALICE INGEBORG STONE, R. N., *Physiotherapy Technician* 120 Colchester Avenue

## OFFICE PERSONNEL

CORNELIA JOSEPHINE BAYLIES, A.B., *Secretary to the Dean* 28 Clarke Street

MRS. NATHALIE R. GRIGGS, *Secretary, Dean's Office* 240½ College Street

MRS. EDYTHE B. LADD, R. N., *Dispensary Nurse* 27 Decatur Street

CONSTANCE MAE PEASE, *Secretary, Departments of Pharmacology and Physiology* 24 Hungerford Terrace

MRS. HARRIET ROWLANDS, *Secretary, Department of Pathology* 360 College Street

MRS. DORIS WILEY, *Secretary, Department of Bacteriology and Clinical Pathology* 36 East Avenue

\* Absent on military leave.

## ADMINISTRATION

The University of Vermont consists of four colleges, *viz.*: The College of Arts and Sciences, The College of Engineering, The College of Agriculture and The College of Medicine. The College of Medicine is a member of the Association of American Medical Colleges and is rated as an approved institution by the Council on Medical Education and Hospitals of the American Medical Association. The record of the graduates of this college and the standing of the institution are, in large measure, the result of the intensive instruction given in small sections in lecture, laboratory and clinic. The tuition charged makes it possible for a student of limited means to prepare for the medical profession.

Inquiries as to admission to the University, requests for catalogues and bulletins, and information concerning the alumni should be addressed to the Director of Admissions of the University.

Requests for information and correspondence of a general character concerning the work of the institution as a whole, or its relation to its constituency, should be addressed to the President.

All telephones are listed under "The University of Vermont." Anyone desiring information concerning the University may secure the same during office hours by calling telephone number 5000, extension 316 or 335. For information concerning the Medical College, call 5000, extension 253.

## HISTORY

The College of Medicine of the University of Vermont is one of the oldest institutions of its kind in the United States. A lecturer on Surgery and Anatomy was appointed by the Trustees of the University Corporation on August 16, 1804. The first full and regular course of lectures, however, was not given until the fall of 1822. In 1829 a Medical College building was erected at the south end of the campus. In 1836 the College was abandoned because of the death of some of its leading spirits and for lack of students. There had been graduated up to that time one hundred and sixteen men.

The reorganization and successful re-establishment of this school were due chiefly to the efforts of Dr. S. W. Thayer, then a practitioner at Northfield. His efforts date back to 1840 and finally were successful in 1853. Dr. Levi W. Bliss of Bradford was also active in securing the reopening of the College. The prosperity of the newly organized department in 1854 soon became manifest, and a material enlargement of the old Medical College building at the head of Main Street was demanded. A sum was raised and the necessary improvements made. In 1870 the citizens of Burlington contributed an additional sum of two thousand five hundred

dollars to enlarge the building further by the addition of a wing and to increase the seating capacity of the two lecture rooms. In 1884 the late John P. Howard generously gave a commodious building at the head of Pearl Street which was occupied first in 1885.

Until 1899 the relation of the College to the University was chiefly nominal. It was then reorganized and made a coordinate department of the University under the control of the Board of Trustees and its facilities both for teaching and study were increased materially. New rooms and improved apparatus were added and additional instructors secured. In 1903 the course was lengthened to seven months and in 1907 to seven and one-half months, giving thirty weeks of actual instruction. In December, 1903, the building which had been occupied by the College for twenty years was destroyed by fire. A new building was begun in August, 1904, and was dedicated in June, 1905.

In 1911 the faculty of the College of Medicine was reorganized and the department made an integral part of the University system. With the opening of the college year of 1912 the entrance requirements were raised to one year of collegiate work and the college year was made equal in length to that of the academic colleges. Beginning in September, 1917, a regulation went into force, providing that two full years of academic college work should be required for admission. This requirement has now been increased to three years of college work. In 1920 women were admitted to the College of Medicine.

## THE COLLEGE OF MEDICINE BUILDING

The College of Medicine building, located at the north end of the College Green, is entirely adequate for the teaching of the preclinical years and for the didactic work of the third year. It is built of red brick with gray terra-cotta trimmings, is three stories high, and is fireproof.

This modern building is well equipped for teaching all branches of medical science, and includes up-to-date facilities for laboratory work. On the ground floor are located the Administrative Offices of the College and the Histology, Pathology, and Bacteriology Laboratories. An amphitheatre, capable of seating one hundred and fifty, is located on this floor. A second amphitheatre of slightly smaller capacity is located on the second floor. The Library of the College of Medicine, which is a division of the University Library, occupies the southwest portion of the second floor. In addition, there are located on this floor the offices and laboratories of the Departments of Biochemistry and Pharmacology, as well as those of the Division of Experimental Medicine. On the third floor are housed the Departments of Anatomy, Pharmacology, and Physiology. The Department of Anatomy has been entirely redecorated and the Dissecting Laboratory modernized with fluorescent lighting, museum and table equip-

ment made possible by generous contributions from the Alumni of the Medical College. A modern refrigeration unit insures excellent preservation of specimens. The new teaching museum includes a permanent display of cross sections of a complete male body, together with additional head sections and female pelvic sections, housed in glass-topped containers. The student laboratory, used by both the Pharmacology and Physiology Departments, was recently rebuilt and equipped with large working benches supplied with sinks, alternating and direct current, and impulse timing, thus allowing for the best forms of experimental work. Offices and research laboratories which have been increased in number and equipment for the use of the members of these two departments are also on this floor. In the basement of the building are research and technical laboratories of the Departments of Pathology and Anatomy.

Adjacent to the Medical Building are the offices and laboratories of the Vermont Department of Public Health, and an animal house used by the College for undergraduate teaching and research.

## CLINICAL FACILITIES

The normal capacity of the general hospitals in Burlington used by the Medical College is 430 beds. Fully three hundred of these beds are used without restriction by the College for clinical teaching. Services in urology, dermatology, neurology, and pediatrics at the Worcester City Hospital and in contagious diseases at the Belmont Hospital in Worcester and a general service at Springfield Hospital bring increases in numbers of patients seen.

To these clinical facilities are added those of the outpatient and Dispensary services which total well over 20,000 cases a year, and those of the State Hospital for mental disease, 1,080 beds, at Waterbury, Vermont; the Vermont Sanatorium for tuberculosis and the Caverly Preventorium at Pittsford, 85 and 48 beds respectively; the hospital facilities of the Brandon State School for the feeble-minded, and the teaching facilities available through the study of children at the Vermont State Home for Destitute Children and St. Joseph's Orphanage, both in Burlington. The number of children cared for in these latter two institutions totals well over three hundred. Admissions to the medical, surgical, obstetrical, and specialty services used for teaching purposes approximate 12,000 annually exclusive of the special facilities just described. With this amount of clinical material and with a limited enrollment of forty students in each of the two classes doing clinical work, an entirely favorable patient-student ratio obtains.

### HOSPITALS

**THE MARY FLETCHER HOSPITAL.** This general hospital of 193 beds, 37 bassinets, has been associated with the Medical College for teaching pur-

poses since 1879. All medical and surgical services are represented. The hospital averages well over 5,700 cases yearly, of which fully two thirds are available for teaching purposes through the use of free and part-pay beds, and through the private cases of attending staff men who are connected with the College in a teaching capacity. The hospital carries the approval of the American Medical Association for interne training and for residencies in medicine, radiology, and pathology.

**THE BISHOP DEGOESBRIAND HOSPITAL.** The Bishop DeGoesbriand Hospital, operated by the Sisters of St. Joseph, was completed in 1924. This fully modern and completely equipped institution is located on the west side of the College Green and directly across the corner from the Medical College. It is fully approved for interne training. Arrangements are now effective in this general hospital for the use of service cases and certain private cases for third and fourth year teaching. The hospital averages over 3,600 cases annually. Its capacity is 140 beds, of which only 43 are allocated for private patients. All services are represented. Members of the attending staff hold teaching positions in the College. Fourth-year men are assigned to one month in residence in this hospital

**THE FANNY ALLEN HOSPITAL, WINOOSKI.** This hospital, the smallest of those associated with the College, presents an unusually large and varied amount of teaching material in the 1,150 cases admitted there yearly. Practically all of these are service cases. The attending staff hold teaching appointments in the College and take charge both of third year ward work and fourth year clinical clerkships. Fourth year men assigned to this hospital assume, under close supervision by the teaching staff, the full duties of internes. Two fourth-year men are assigned every month to this hospital. A section of four third-year men is assigned here for ward work.

**THE WORCESTER CITY HOSPITAL, WORCESTER, MASSACHUSETTS.** Clinical clerkships in urology in both outpatient and inpatient services, including work in the venereal disease clinic of the City of Worcester, are available to sections of two men from the fourth-year class assigned to this service on a monthly basis. The service is under the direct supervision of the head of the Division of Urology in the Department of Surgery. Teaching is carried on by the attending staff in urology, all of whom hold appointments in the College. The urological service averages over 900 inpatient and 3,600 outpatient cases annually. In addition to work in urology, the section at Worcester also carries an assignment in clinical neurology under the tutelage of the attending staff in neurology who, again, are faculty members of the University of Vermont College of Medicine. The work includes both inpatient and outpatient studies. Clinical work in pediatrics and dermatology is available under similar supervision. The student section in Worcester also participates in grand ward rounds and is privileged to attend staff meetings and conferences pertaining to the medical services



of the hospital. On assignment to this service, students take up residence for a month in Worcester. As with senior students elsewhere, their work is on a day-around basis.

**THE BELMONT HOSPITAL, WORCESTER, MASSACHUSETTS.** This is the isolation and tuberculosis hospital of Worcester, Massachusetts. The new building makes the capacity 250 beds. Through the cooperation of its trustees, this hospital affords sections of seniors a study of communicable diseases, including tuberculosis. The instruction is under the direction of the Superintendent, Dr. H. K. Spangler.

**OBSTETRICAL SERVICE.** The obstetrical service includes attendance at the maternity ward of the Mary Fletcher Hospital, the prenatal and postnatal clinics held at the Burlington Free Dispensary, and a service at the Elizabeth Lund Home. Sections of four students spend one month on this service.

The service at *The Elizabeth Lund Home* is under the direction of the Professor of Obstetrics of the College of Medicine. Patients are assigned to individual students who, under the supervision of a clinical instructor, act as labor clerks, taking histories, making general physical and obstetrical examinations and keeping detailed records. The labor clerk observes or assists at deliveries. At the Lund Home the student is taught a technic designed to meet obstetrical problems under conditions which might be found in a private home where only limited resources and limited facilities are at hand. Hospital technics are learned in the study of labor cases attended at the *Mary Fletcher Hospital*.

**PEDIATRICS.** The wards of the three local hospitals, the St. Joseph's Orphanage, the Vermont State Home for Destitute Children, and the Elizabeth Lund Home, together, furnish a full service in pediatrics. To this is added clinical work at the Caverly Preventorium, the Brandon State School and the Worcester City Hospital. Each institution is under the personal direction of a member of the teaching staff.

**THE SPRINGFIELD HOSPITAL, SPRINGFIELD, VERMONT.** Due to the defense industries in Springfield, a very active general service in this hospital makes possible diversified section work for the seniors. The students are under the immediate direction of local physicians.

**VERMONT STATE HOSPITAL, WATERBURY.** A hospital of 1,080 beds for patients suffering from mental diseases, admitting about 355 patients each year. This makes it possible to have available at nearly all times patients illustrating the various clinical syndromes. Students attend occasional clinics here during the third year and are in residence for one month during the fourth year.

**THE VERMONT SANATORIUM AND CAVERLY PREVENTORIUM, PITTSFORD.** The Vermont Sanatorium for incipient and early tuberculosis with 85

beds and the Caverly Preventorium for undernourished children with 48 beds, both located at Pittsford, are under the immediate supervision of an officer of the faculty of the College.

In these institutions, in addition to the didactic and clinical instruction that the student receives at the various general hospitals and dispensaries, he is given intensive instruction in tuberculosis, free from the disturbing influences of the larger general institution, and from the larger groups of students attending them. The fullest advantage possible is taken of the opportunity for individual or personal teaching by the staff.

**BRANDON STATE SCHOOL.** Senior sections are assigned for two weeks at the Brandon State School for clinical clerkships in pediatrics and neuropsychiatry. A large group of teaching cases has been carefully worked up for reviewing physical diagnosis. This work is in charge of the State Psychiatrist and is offered to supplement lecture courses in pediatrics and the neuropsychiatry of childhood.

**DISPENSARIES.** By arrangement with the Department of Charities of the City, the sick poor, both ambulatory and "bed" cases, are committed to the care of the authorities of the College of Medicine. A director with a competent staff is in charge of both intern and extern services. Senior students are assigned definite duties in rotation on both intern and outside services, under the personal supervision of a clinical instructor. Two dispensaries are maintained by the College: one at the Mary Fletcher Hospital, and one at 174 Pearl Street, for many years occupied by the Howard Relief Society. During the fiscal year ending June 30, 1945, the Dispensary handled 9,905 visits.

A patient is assigned to each student. After the student's examination, the instructor immediately checks the history and physical examination, and discusses the clinical findings, the treatment and prognosis. Such diagnostic aids as x-rays, cardiograms, metabolism tests, and blood chemistry are obtained at the hospitals where indicated. Such cases as need hospitalization are referred to the teaching services at the local hospitals and are followed, after discharge, at the dispensaries. Daily medical and surgical clinics are held throughout the teaching week. Clinics in the specialties are held twice a week.

Association and cooperation with the social agencies—the Howard Relief Society, Vermont Children's Aid, and Visiting Nurses Association—are particularly valuable. These organizations have offices in the same building as the Pearl Street Dispensary. The students have opportunity to correlate social work with the medical program.

The extern service, consisting of visits to patients confined to bed at home, is maintained with headquarters at the Pearl Street Dispensary. An instructor makes house calls with the student and thus personally supervises the work.



## MEDICAL LIBRARY

The medical library is located on the second floor of the Medical College building within easy access of the various departments in the building. The reading rooms accommodate 50 students. Bound volumes in the library number approximately 18,500. More than 230 medical periodicals are received. A microfilm reader is available.

From time to time it has acquired valuable accessions from the medical libraries of Drs. H. C. Tinkham, D. C. Hawley, F. T. Kidder, F. W. Sears, J. L. Campbell, I. C. Eisenberg, E. W. Shipman, R. T. Johnson, G. B. French, the Drs. Bullard, F. D. Carr (presented by Dr. C. D. Pierce), T. S. Brown, J. N. Jenne, J. B. Wheeler, G. C. Berkley, T. H. Hack, W. G. Townsend, W. J. Upton, W. R. Kinson, H. L. Frost, and Lyman Allen.

The Stone Memorial Fund, amounting to one thousand dollars, was contributed by the family, associates, friends and students of Dr. Bingham H. Stone, late Professor of Pathology. The income from the fund is used for the purchase of books or periodicals dealing with pathology or related subjects. This material, together with Doctor Stone's own books, given by Mrs. Stone, makes up the Stone Memorial Library, which is an integral part of the library of the College of Medicine.

## MEDICAL MUSEUM

The Medical Museum contains a large number of specimens, illustrating the development of the body, the relation of normal structures of the body and various pathological conditions. A large number of sections of the brain show the internal structure of that organ. These specimens are distributed throughout the laboratories, where they can be made the most useful in teaching various subjects.

## LABORATORY FACILITIES

In addition to the well-equipped laboratories of pathology, bacteriology, chemistry, histology and embryology, pharmacology, physiology and anatomy, in the College building, there are available and used for teaching purposes the bacteriological, diagnostic, serological, medico-legal, food and water laboratories of the State Board of Health, situated in the Board of Health building adjoining the College of Medicine. This building is the property of and was fitted up by the University. There exists the closest sympathy between the State Board of Health and the University, making the interests of the two institutions one. The Secretary and Executive Officer of the State Board of Health is Professor Emeritus of Public Health in the College; the Director of the Board of Health Laboratory is Professor Emeritus of Toxicology and Biochemistry in the College; and the Director of the Sanitary Engineering Division is Instructor in Public Health in the department of Preventive Medicine and Public Health.

Furthermore, the Director of the Board of Health Laboratory is by virtue of that position, State Pathologist, a position equivalent to medical examiner in other states, and performs all autopsies required by the State Department of Justice.

Well-equipped dark rooms and photographic laboratories which include equipment for photomicrography are maintained in the College of Medicine Building and at the Mary Fletcher Hospital. These facilities are used by all departments of the College.

#### PARTICIPATION IN HEALTH ACTIVITIES WITHIN THE STATE

At the 1939 session of the State Legislature, further provision was made for the maintenance of a State Cancer Commission whose function is both that of case-finding and, to a certain extent, the treatment of patients suffering from malignant neoplasms. The Medical College through its faculty, both full-time and part-time, has been active in staffing the clinics held in Burlington and in making full provision for histological diagnosis in all cases seen by the Commission. The close cooperation between the faculty men in Burlington, the State Division of Women's Field Army Against Cancer, and the Cancer Commission affords a splendid instance of the Medical College's usefulness to this region and its rôle in problems not primarily connected with medical teaching.

An additional participating activity in the field of preventive work is the Medical College's interest and activities in aiding case-finding in tuberculosis, mental disease, diseases of the eyes, and in work for crippled children. While such clinics are for the most part staffed by men whose primary interests are centered in the State organizations with which they are connected, the Medical College meets a generous share of the expense of these clinics, houses most of those held in Burlington, and stands in a position to augment the diagnostic services concerned. Maternal welfare in Vermont benefits materially from the College's policy of affording hospitalization for lying-in cases in instances of medical indigency. The same, of course, is true for those able to avail themselves of the diagnostic and therapeutic clinics maintained by the College. There is no major health activity in Vermont either State supported or privately supported in which the Medical College does not play an integral part.

Finally, the Medical College offers organized courses in postgraduate medical studies to the practitioners of the region it serves. The College's policy is strongly inclined toward the feeling that a very considerable part of its activities should be the encouragement of a continuation of medical study by medical practitioners after their graduation. Post-graduate courses are, accordingly, offered at relatively frequent intervals.

## FEES AND EXPENSES

Tuition Fee for each session for Vermont students.....	\$400.00
Tuition Fee for students not residents of Vermont.....	550.00
Health and Infirmary Fee.....	10.00
Osler Club Fee.....	3.50
Fee for the Doctor's Degree, payable at graduation only.....	25.00

*Average Range*

Room Rent .....	\$150.00 to \$250.00
Board .....	250.00 to 350.00

Students entering the College of Medicine who have never been previously enrolled for a regular session in one of the Colleges of the University are charged \$5.00 as a fee for registration.

The health and infirmary fee provides for complete health and infirmary service up to 10 days per academic year. Students boarding in University dining halls and paying the regular board charges do not pay for meals while in the infirmary. Those not boarding in University dining halls pay \$1.25 a day for their meals.

All students who enter the first year in the College of Medicine following three years' attendance in the College of Arts and Sciences of the University of Vermont are charged the academic student activity fee of \$15 for that year. This includes the Osler Club fee of \$3.50 a year. All students are required to pay the latter fee each year they attend the College of Medicine.

Each student is required to deposit \$20 at the beginning of the college year to cover any breakage charges which may be reported. The amount charged in each year will be collected at the opening of the following year, thereby re-establishing the deposit in its original amount. At the end of the fourth year the amount standing to the credit of each senior will be applied toward the fee for the Doctor's Degree.

Each student in the College of Medicine is required to purchase or rent at the beginning of his Freshman year a compound microscope, conforming in make, model and equipment to a specified standard. Approved microscopes are sold or rented to students at the University Store.

Students must provide microscopical supplies for use in the various laboratories.

Each student must purchase a dissecting case for use in the Anatomical Laboratory.

Medical textbooks and outlines, and student supplies and equipment are sold at the University Store in the Waterman Memorial Building.

The tuition fee is payable in two equal installments, at the beginning of each semester. Students are not admitted to classes of a half year until the comptroller's receipt has been issued.

Students temporarily absent from the University are charged as if present.

Students who engage a room in a College dormitory are liable for the rental charge for the entire year.

A student who has been dropped into a lower class because of deficiency in his work, or for other reason, will be required to pay his bills for the additional year or years in which he may be a member of the University.

In no case will a scholarship or tuition exemption be available for more than four years.

## HONORS AND PRIZES

The five students who are found to have secured the highest aggregate of credits during the entire four years' course of study in the College of Medicine are designated honor men, and each is graduated as Doctor of Medicine, *cum laude*.

*The Governor Woodbury Prizes.*—The income from a fund of one thousand dollars provides annually two equal scholarships. The first is awarded at graduation to the student who has shown the greatest proficiency in clinical work. The other prize is awarded to the sophomore having the highest standing in the subjects of the first two years. The amount of each prize is determined by the actual income obtained from the investment of the fund.

*The Carbee Prize.*—A prize fund of three thousand dollars, established by the late Mrs. May D. Carbee of Haverhill, N. H., in memory of her husband, Moses Dyer Carbee, M.D., of the class of 1873, provides that the income on said fund be awarded annually by the Department of Obstetrics to that student of the Senior class who has shown the greatest proficiency in the subject of Obstetrics. The amount of the prize is the income earned annually from the investment of the fund.

*Nu Sigma Nu Merit Awards.*—Two merit awards are given annually by the local chapter and the National Executive Council of Nu Sigma Nu Fraternity, one to the outstanding junior and one to the outstanding freshman. These awards are based on scholarship attainment, character, leadership, general sociability, and extra-curricular activities.

*Book Awards.*—Book prizes for meritorious work were awarded in September 1944 and June 1945 by the following publishing companies: Lea and Febiger, C. V. Mosby, and Williams and Wilkins.

## FELLOWSHIPS AND RESIDENCIES

The University Trustees have established two teaching fellowships in Clinical Medicine to be awarded each year, good for two years, which will be given to graduate medical students holding academic degrees, who may

wish to pursue further their studies in Clinical Medicine with the purpose of obtaining the degree of Master of Science.

There are also established, under the supervision of the College of Medicine, two residencies in Medicine, in Pathology, in Radiology, and in Surgery. All of these residencies are approved by the American Medical Association.

## SCHOLARSHIPS AND LOAN FUNDS

A scholarship fund of three thousand dollars was established by the late Mrs. May D. Carbee of Haverhill, N. H., in memory of her husband, Moses Dyer Carbee, M.D., of the class of 1873. The income on said fund is to be given annually to a deserving student in the College of Medicine. The amount of the scholarship is the actual income earned by the investment of the fund.

Fifty State Scholarships of one hundred dollars each for the benefit of medical students in this institution who are in need of financial assistance, and who have resided in Vermont for two consecutive years preceding enrollment, were established by the State Legislature in 1919. Students receiving the benefit of such scholarships must agree to practice medicine in Vermont one year for each year this aid is given or refund the amount received. Application blanks may be obtained from the Comptroller.

A loan fund of four thousand dollars was established by the late Mrs. May D. Carbee of Haverhill, N. H., in memory of her husband, Moses Dyer Carbee, M.D., of the class of 1873. This fund is for the benefit of deserving students of the College of Medicine subject to the usual rules governing loan funds.

The Edith Blanche Kidder Scholarship Fund was established by the late Joseph W. Kidder. This is for students in the College of Medicine, preference being shown to legal residents of Barre, Vermont. The amount of each scholarship is determined annually according to the income from the investment of the fund.

The Medical College Loan Fund is available for loans to students enrolled in the College of Medicine.

There are also certain special and endowed scholarships, including Wilbur Fund, which are available to students of any college in the University. For information concerning these, see the catalogue number of this Bulletin.

## PREMEDICAL CURRICULUM

Students who intend to study Medicine should first complete the regular four-year curriculum in a college of arts and sciences, or may offer three years of work taken in such an institution. In either case they must

satisfactorily complete the courses prescribed by the Council on Medical Education and Hospitals of the American Medical Association, and those recommended as being especially valuable. For those who desire the Bachelor's and Doctor's degrees and find it impossible to spend eight years, a combination curriculum of seven years has been provided. A candidate must complete the work of the first three years in the College of Arts and Sciences, including the requirements for admission to the College of Medicine. In his fourth year, he will be considered as enrolled in both the College of Arts and Sciences and in the College of Medicine, but will pursue only the studies of the first year in the latter college, on the successful completion of which he will receive his B.S. degree.

Students from other institutions who desire to receive both degrees, must complete at least one full year's work in junior or senior standing in the College of Arts and Sciences before entering the College of Medicine.

The College of Arts and Sciences of the University of Vermont enrolls those students preparing for the study of medicine in its regular curricula. Each student receives the guidance of an Advisor who will assist him in choosing the proper courses of study. Although considerable flexibility of choice is allowed, the program most frequently selected during the freshman year includes the following: English, Chemistry, Biology, Mathematics, and a foreign language.

At the end of the freshman year, these students appear before the Medical Advisory Committee composed of representatives of the College of Medicine and the College of Arts, who will advise such students of the feasibility of continuing premedical preparation and the choice of further courses.

Transfers from other colleges to the College of Arts and Sciences who intend to apply for admission to the College of Medicine also appear before this Advisory Committee.

Sophomore students consult with the Advisory Committee at the end of that year, at which time the program of studies to be followed for the subsequent sessions will be considered.

Because of the flexibility of the program and the frequent consultations with the student's Advisor and the Medical Advisory Committee, a choice of studies best adapted to the preparation and aptitude of the individual student should be assured.

### REQUIREMENTS FOR ADMISSION

Enrollment in the College of Medicine has been restricted because of limited teaching facilities. A maximum of forty students are admitted to the entering class.

A minimum of three years of college work in which certain subjects are required is a prerequisite for admission to the College of Medicine. It is a further prerequisite that this work shall have been done in an



institution approved for premedical training by the Council on Medical Education and Hospitals of the American Medical Association. Their requirements are: one year each of English, General Chemistry, Organic Chemistry, Physics and Biology. In addition, the College of Medicine recommends a second course in English, a year in Mathematics, and a course of intermediate grade in a foreign language. These minimum requirements afford the student the opportunity of electing additional courses so that his undergraduate study will be both adequate preparation for professional work and a broad education as well.

The curriculum offered in the College of Arts and Sciences not only covers this work but also coordinates in subject matter with the work in the College of Medicine. The students preparing for the study of medicine are enrolled in the regular curricula. The Admissions Committee expects applicants to have completed a program like that outlined above. At the same time the Committee may, at its discretion, give favorable consideration to applicants who have not found it possible to follow in close detail the premedical curriculum, provided that they have completed three years of college work and are able to show acceptable credit in the required courses.

In general, preference is shown in matters of admission: First, to residents of the State of Vermont; second, to sons and daughters of graduates of the University. If vacancies remain after these two groups have been considered, the quota will be filled with those non-resident applicants who, in the judgment of the Medical Admissions Committee, are best qualified to prepare for the practice of medicine.

All candidates must be able to show the Admissions Committee not only that they have passed the courses necessary to fulfill the entrance requirements, but also that their scholarship and personal qualifications for the study of medicine are of such character as to give high promise for success in the course of their medical studies.

Eligibility of an applicant for enrollment in the Freshman class as finally determined by the Admissions Committee of the College of Medicine is based upon:

1. The quality and quantity of the work done in meeting the premedical requirements.
2. The score reported in the Aptitude Test, adopted by the Association of American Medical Colleges or the score in the Graduate Record Examination.
3. The personality and general fitness of the applicant for the study of medicine as determined by a personal interview with the Admissions Committee of the College of Medicine and by the recommendations of his premedical instructors and other persons.

Application blanks for entrance to the first year class may be secured from the Dean upon request. Individuals selected by the Admissions Com-



mittee on information so furnished will be given personal interviews. Notification of selection for personal interviews will be given by the Dean's office.

### ENROLLMENT

Payment of bills, registration and enrollment occur on the first day of the College year. Registration for each session closes seven days after the opening of College. New students will not be enrolled in the College of Medicine except at the beginning of a session.

### ADMISSION OF STUDENTS TO ADVANCED STANDING

For a number of years the College of Medicine has accepted few students to advanced standing. When students are accepted, the following requirements are rigidly imposed:

1. That the premedical and medical work accord with the courses required at this institution, and were taken at an institution approved by the Council on Medical Education and Hospitals of the American Medical Association.
2. That the scholastic record is satisfactory.
3. That the previous record shows that one or more years have not been repeated on account of low scholarship regardless of class standing.
4. That the statement of record shows no outstanding condition whatsoever and that a letter of honorable dismissal be presented.

A personal interview is required of all applicants for admission by transfer to the College of Medicine. Preference will be given to residents of the State of Vermont, particularly those holding a baccalaureate degree.

Students desiring advanced standing are subject to the same rules in regard to advancement in course as students who have attended this college. No applicant for advanced standing will be enrolled under more favorable conditions than would obtain were he to continue at the institution from which he seeks to transfer.

Students dismissed by reason of failure grades from other institutions will not be considered for admission to any class in the College of Medicine.

A student desiring to enter an advanced class must present a letter of honorable dismissal and a certificate from the college from which he comes indicating the subjects presented for admission, the courses completed with the grades, and the conditions under which he could continue.

### REQUIREMENTS FOR ADVANCEMENT IN COURSE

Attendance upon all the exercises assigned for the year is obligatory. Students must attend at least 80 per cent of the exercises of any subject. Failure to do this constitutes a failure in that subject. The plan for the

medical course of study is understood to comprise four consecutive school years. Any resumption of study after absences greater than the time now allowed for absence will be permitted only on majority vote of the Faculty after careful study of the case by the Admissions Committee.

The work of each year is final and students are advanced when they have satisfactorily completed the work assigned for the year.

The standing of each student in his class at the end of the session is based upon the general character of his work in the different laboratories and other practical exercises, upon the character of his recitations, upon the result of the midyear examinations and upon the result of the examinations held at the end of the session.

Students who fail in not more than twenty-five per cent of the work by subjects in the first, second, or third years, may be re-examined in these subjects at the regular examination period preceding the opening of the next session. The marks obtained in this re-examination are computed with the credits earned during the preceding session in exactly the same way as those obtained in the examination at the end of the session. Where re-examination has been given and passed, the final grade for the student in the particular course shall be seventy-five per cent. This grade will be used in calculating and reporting credits.

A student who, upon re-examination again fails, will not be advanced; provided, however, that if such failure be in a single subject which is not completed in that year, the student may, upon recommendation of the head of the department in which he failed, and by a vote of the Faculty, be advanced with a condition. A student failing in any course and yet permitted to advance with his class shall not be promoted a second time until that failure is removed.

Students who have failed in more than twenty-five per cent of the work by subjects in any year may enroll the following session to repeat the work of that year only upon the recommendation of the Admissions Committee and with the express approval of the Faculty.

The following additions to the requirements for advancement have recently been put into effect. They hold if there is any conflict with the preceding.

*Freshmen:* Present rules regarding failures are to hold, except that the Committee on Advancements is empowered to review cases of failure and make such recommendations to the Dean and the Faculty as it may see fit.

*Sophomores:* Second-year students will be admitted to the sophomore comprehensive examination upon recommendation by respective department chairmen, subject to the approval of the Committee on Advancements and the Dean. Advancement to the third year shall be conditioned upon recommendation of the Committee on Advancement and the Faculty.

*Juniors:* The third-year students shall be judged on the basis of course work, present rules regarding failures to hold except that the Committee on Advancements is empowered to review cases of failure and make such recommendations to the Dean and Faculty as it may see fit.

*Seniors:* Fourth-year students will be admitted to the senior comprehensive examination upon recommendation of respective department chairmen, subject to the approval of the Committee on Advancements and the Dean.

A student who has been a member of any class for two sessions, and has failed to complete satisfactorily the work of that year, will not be enrolled again as a student of the College.

A student who is not present at an examination will be classed as having taken the examination and failed, unless excused from such examination by the Faculty.

### REQUIREMENTS FOR GRADUATION

Candidates for the degree of Doctor of Medicine must have reached the age of twenty-one years and must have presented satisfactory evidence of good moral character. All the requirements of this college in regard to preliminary education must have been met, and the candidate must have attended regularly and completed satisfactorily the prescribed work of the four courses of instruction in medicine. Graduation is conditioned upon recommendation by the Committee on Advancements and the Faculty.

While internship is not required for graduation, graduates are expected to serve at least a one-year internship in a hospital approved by the Council on Medical Education and Hospitals of the American Medical Association in addition to the four years of college work.

All candidates for degrees must be present at Commencement unless excused by the President of the University.

### OUTLINE OF THE CURRICULUM

The student studies first the general structure of the body, its embryological development, the functions of the various organs, the chemical processes taking place in the body and the minute structure of the tissues and organs in health.

Then follows consideration of the changes in gross and microscopic anatomy, the variations in the chemical processes and in the functions of organs and tissues under the influence of disease and how such changes give rise to different symptoms and physical signs. The methods of interpreting such findings in arriving at a diagnosis are also considered.

The student then studies the methods of investigating diseases, their causes and prevention, as well as the remedies used in their treatment.

The various surgical conditions are considered along with the indications for treatment or operation. Reproduction and development are studied together with the management of normal and abnormal labor.

Instruction is given by lectures, demonstrations, recitations, library work, practical courses, laboratory work, clinics and clinical teaching, at the bedside and in the Dispensary. For clinical work the class is divided into small sections. Each student, therefore, receives the personal attention of the instructor and is given every opportunity for the full use of assigned material.

*The work of the First Year* includes the study of Anatomy, Physiology, Biochemistry, Histology, Embryology and Neuroanatomy.

*In the Second Year* courses are given in Pharmacology, Pathology, Bacteriology, Clinical Pathology and Public Health. Anatomy and Physiology are completed in this year. Medicine, Surgery, Obstetrics, Pediatrics and Psychiatry, find their introduction in the second year's curriculum. Throughout the year every effort is made to integrate the student's work so that the relation of each course to the others is fully apparent and the student is brought to an appreciation of the interrelations of the medical sciences. As a part of this plan, a two-hour period is set aside each week during the second semester for a correlation conference. This is offered as a course in itself and is designed to emphasize interdepartmental studies and interdepartmental relationships. Selected cases are brought forward for study and each of the departments connected with second-year teaching takes part in this assignment.

*The work of the Third Year* includes further study in Medicine, Surgery, Obstetrics, Pediatrics, and the various subjects of Medicine and Surgery. Pathology is extended into the third year both as a continuation of the second year's general course and as a course outlining special pathological conditions encountered in clinical medicine. With this in view, emphasis is placed on Surgical Pathology, both gross and microscopic. A course in Radiology extends throughout the year and Physical Therapy is taught during the second semester.

Ward work in Physical Diagnosis is begun in the third year. Students are assigned in small sections to the wards of the hospitals connected with the College. This work, under proper supervision, includes the taking of histories and physical examinations. When the work is completed, the case is presented before the section for criticism by the instructor. Ward work of this nature occupies the afternoon periods of the third year.

The correlation conferences begun in the second half of the second year are continued at weekly intervals throughout the third year. While the principal emphasis in the second-year correlation conferences is placed on problems more related to preclinical subjects, in the third year the conferences go further into clinical problems keeping in close touch, nevertheless, with established bases in preclinical fields. Here again the conference is offered as a joint activity of the departments associated with

the class's instruction. The plan follows that of the second year in using selected cases for discussion.

Practical courses in Minor Surgery and manikin exercises in Obstetrics are also given in the third year, as well as courses in Eye, Ear, Nose and Throat, and Gynecology.

*The Fourth Year* is devoted to the study of clinical diagnosis and the treatment of disease, the work being entirely clinical and without didactic teaching.

The class is divided into sections of not more than four students each. These sections are assigned to various services in rotation. These services include Medicine, Surgery and Obstetrics, together with the Medical and Surgical specialties at the Mary Fletcher Hospital, general service at the Bishop DeGoesbriand and Fanny Allen Hospitals, and city service with the City Physician.

During the year the students are required to attend autopsies under the instruction of the Professor of Pathology, and to make such study of the tissues removed as may be of value in understanding the pathological history of the case.

As a supplement to the clinical work in Burlington, a month is spent in Urology, Dermatology, and Neurology at the Worcester City Hospital, and another month in contagious diseases at the Belmont Hospital in Worcester, Massachusetts. Studies in residence at the State Hospital for mental disease at Waterbury, the State Sanatorium at Pittsford and the State School at Brandon are included in the fourth year.

The correlation or clinical conference periods of the fourth year are offered through service ward rounds, grand ward rounds, interdepartmental diagnostic conferences, and the clinical-pathological conferences of the hospital staff. While most of the emphasis necessarily is placed on the clinical aspects of the cases under study, no opportunity is lost for reviewing preclinical fundamentals.

# DETAILS OF INSTRUCTION IN THE DEPARTMENTS OF STUDY

## THE DEPARTMENT OF ANATOMY

THOMAS STEPHEN BROWN, M.D., *Professor Emeritus of Anatomy*

CHESTER ALBERT NEWHALL, A.B., M.D., *Associate Professor of Anatomy,  
Chairman of Department*

HOVEY JORDAN, PH.B., M.S., M.A., *Professor of Histology and Embryology*

WALTER ALVA STULTZ, A.B., PH.D., *Associate Professor of Anatomy*

FRED WILLIAMS DUNIHUE, A.B., M.S., PH.D., *Associate Professor of His-  
tology and Embryology*

### FIRST YEAR:

#### I. *Gross Anatomy*

This course begins with a brief introduction to the study of human anatomy in general, and osteology in particular. The plan of work then provides for dissection of the body from the standpoint of topographical and regional anatomy. As a general rule, structures to be dissected during a given period are assigned in the order in which they are encountered in the dissecting room and are studied and discussed in advance so that the student will be somewhat familiar with what he expects to discover in the laboratory. The appearances of anatomical structures as shown on X-ray films are demonstrated by the Division of Radiology.

The course includes the identification of all of the more important structures found in a complete series of cross sections, as well as a study of their relationships, supplemented by surface studies on the living body as well as by the use of stereoscopic views and demonstration specimens of dissected regions.

Frequent review sessions are held and each student is given oral examinations on cadaver dissections as well as written examinations on the material presented.

An attempt is made to correlate the subject matter with other pre-clinical and clinical courses so that the student will have an opportunity to acquire a good working knowledge of gross anatomy with a minimum amount of time and effort wasted.

336 hours (21 hours per week during the first semester). This does not include 30 hours (10 hours per week for the first three weeks of the second semester) of instruction in the gross anatomy of the central nervous system which is included in the course in Neuro-anatomy (see below). *Drs. Newhall and Stultz.*



## *II. Histology, Embryology, and Neuro-anatomy*

The subject matter is organized and presented in the following parts and sequence: Histology, Embryology, Neuro-anatomy. Work is carried on by means of lectures, discussions, demonstrations, and laboratory exercises, and continues throughout the first year. Among the topics considered are: technic, microscopic structure of normal human cells, tissues and organs, maturation, fertilization, cleavage, implantation, the development of body forms, tissues, and organs, the development, structure and functional organization of the nervous system. An effort is made throughout to include practical applications and correlations.

The facilities of the laboratory are available to a limited number of qualified persons for research in these subjects.

304 hours (Histology, 112 hours; Neuroanatomy, 160 hours, including 30 hours of gross anatomy. Professor Jordan, Dr. Dunihue. Embryology, 32 hours. Dr. Dunihue).

### SECOND YEAR:

#### *I. Surface and Radiological Anatomy*

This course consists of lectures and laboratory work in surface anatomy, in which the students outline the surface markings on the body. The course is illustrated by the use of X-ray films and is designed to correlate with the work in physical diagnosis.

40 hours (two hours per week during the first semester and one hour per week during the first half of the second semester). Drs. Stultz and Newhall.

#### *II. Anatomy: General Review*

The aim of this course is to review the subject matter thoroughly so that each student will strengthen his grasp of the essentials necessary for applying his knowledge of anatomy, always striving to keep in mind the fact that a knowledge of structure is of little use except as it contributes to an understanding of function and the ability to restore abnormal function again to normal. Emphasis is placed upon the correlation of gross anatomy with microscopic and developmental anatomy.

8 hours (one hour per week during the last half of the second semester). Dr. Newhall.



THE DEPARTMENT OF BACTERIOLOGY AND CLINICAL  
PATHOLOGY

\*WENDELL EVERETT JAMES, A.B., M.S., M.D., *Professor of Bacteriology and Clinical Pathology, Chairman of Department*

FRED W. GALLAGHER, A.B., M.A., PH.D., *Assistant Professor of Bacteriology and Clinical Pathology, Acting Chairman of Department*

KARL KENNETH GRUBAUGH, A.B., M.A., *Instructor in Bacteriology and Clinical Pathology*

CLAIRE WALTER, B.S., *Instructor in Bacteriology and Clinical Pathology*

## SECOND YEAR:

I. *Bacteriology*

The subject matter embraces a brief survey of the general biological aspects of bacteriology including essential technics; a consideration of the principles of infection and the resistance of the body to disease; a study of the various infectious agents and their relation to disease processes. Immunology and serology are treated as integral parts of the course.

Lectures, three hours per week; laboratory, eight hours per week, first semester. 176 hours. Dr. Gallagher and Mr. Grubaugh.

II. *Clinical Pathology*

Laboratory methods and their interpretation in clinical diagnosis. Microscopic and chemical studies of urine, blood, gastric contents, exudates and transudates; parasitology.

Lecture, one hour per week; laboratory, six hours per week, second semester. 96 hours. Staff.

III. *Clinical Conferences*

Two hours per week throughout the second semester, in conjunction with the Department of Medicine.

## THE DEPARTMENT OF BIOCHEMISTRY

CHARLES FLAGG WHITNEY, B.S., M.S., M.D., *Professor Emeritus of Biochemistry and Toxicology*

HAROLD BARNARD PIERCE, B.S., M.S., PH.D., *Professor of Biochemistry, Chairman of Department*

EDWIN EVERETT HAYS, B.S., M.S., PH.D., *Assistant Professor of Biochemistry*

†PAUL FREDRIC FENTON, B.S., M.S., PH.D., *Assistant Professor of Biochemistry*

ELIZABETH CHARLOTTE PAULSEN, A.B., *Fellow in Biochemistry*

MRS. BETTY HAWKINSON DOHERTY, A.B., *Assistant in Biochemistry*

\* Resigned as of July 31, 1945.

† Resigned as of November 1, 1945.

## FIRST YEAR:

I. *Biochemistry*

The course is designed to afford the students an insight into chemical transformations which take place in the living animal body, with special reference to man. The work is largely quantitative and deals with carbohydrates, fats, proteins, enzymes, digestion, absorption, blood and urine. The chemistry of the vitamins and hormones is discussed briefly to prepare for the more extended study in the course on nutrition and endocrinology.

Lectures, recitations and laboratory. 176 hours. Drs. Pierce and Hays, Miss Paulsen, and Mrs. Doherty.

II. *Nutrition and Endocrinology*

The course is designed to give an understanding of the nature and action of the vitamins and hormones, and a knowledge of their clinical applications. The remainder of the course is devoted to the study of foods, diets, diet planning and other nutritional problems.

Lectures and recitations. 24 hours, last eight weeks, second semester. Drs. Pierce and Hays.

## THE DEPARTMENT OF MEDICINE

CLARENCE HENRY BEECHER, M.D., *Professor of Medicine*

ELLSWORTH LYMAN AMIDON, B.S., M.D., M.S. (Med.), *Professor of Medicine, Chairman of Department*

\*PAUL KENDRICK FRENCH, PH.B., M.D., *Associate Professor of Clinical Medicine*

THEODORE HENRY HARWOOD, A.B., M.D., *Assistant Professor of Medicine*

EDWARD JAMES ROGERS, B.S., M.D., *Assistant Professor of Clinical Medicine*

THOMAS WRIGHT MOIR CAMERON, PH.D., *Visiting Professor of Tropical Medicine*

MARGUERITE KINGSBURY, A.B., M.D., *Instructor in Medicine*

ROBERT DOWNING COX, A.B., M.D., *Instructor in Clinical Medicine*

\*FRED SCOTT KENT, M.D., *Instructor in Clinical Medicine*

HYMAN BERNARD LEVINE, B.S., M.D., *Instructor in Clinical Medicine*

KATHERINE ELLA MCSWEENEY, A.B., M.A., M.D., *Instructor in Clinical Medicine*

\*JAMES PATRICK MAHONEY, M.D., *Instructor in Clinical Medicine*

HAROLD EDWARD MEDIVETSKY, B.S., M.D., *Instructor in Clinical Medicine*

CHRISTOPHER MARLOWE TERRIEN, M.D., *Instructor in Clinical Medicine*

ARTHUR DOWNING WARD, M.D., *Instructor in Clinical Medicine*

UBALDO EDWARD ZAMBARANO, B.S., M.D., *Instructor in Clinical Medicine*

\*WILLIAM HENRY HEININGER, M.D., *Assistant in Medicine*

\*JOHN HENRY MCCREA, B.S., M.D., *Assistant in Medicine*

\* Absent on military leave.

GEORGE JOSEPH GABUZDA, JR., A.B., M.D., *Resident in Medicine*  
AARON HINMAN GROUT, PH.B., *Lecturer in Medical Jurisprudence*

## DIVISION OF DERMATOLOGY

EUGENE FREDERICK TRAUB, B.S., M.D., *Visiting Professor of Dermatology*  
EDWARD PERRY DISBROW, M.D., *Assistant Professor of Clinical Dermatology*

## DIVISION OF EXPERIMENTAL MEDICINE

WILHELM RAAB, M.D., *Professor of Experimental Medicine*  
WILLIAM VAN BOGAERT ROBERTSON, M.E., PH.D., *Assistant Professor of Experimental Medicine*

## DIVISION OF NEUROLOGY

HIRAM EUGENE UPTON, B.S., M.D., *Assistant Professor of Clinical Medicine*  
\*JESSE OGLEVEE ARNOLD, II, B.S., M.D., *Assistant Professor of Clinical Neurology*  
FOSTER LANE VIBBER, M.D., *Assistant Professor of Clinical Neurology*  
\*CONRAD WALL, A.B., M.D., *Instructor in Clinical Neurology*

## DIVISION OF PEDIATRICS

CHARLES KIMBALL JOHNSON, M.D., *Professor Emeritus of Pediatrics*  
ROY EDWARD CORLEY, A.B., M.D., *Associate Professor of Pediatrics*  
\*PAUL DENNISON CLARK, M.D., *Assistant Professor of Pediatrics*  
STUART STARNES CORBIN, B.S., M.D., *Assistant Professor of Pediatrics*  
ALFRED SMITH O'CONNOR, A.B., M.D., *Assistant Professor of Clinical Pediatrics*  
\*JEROME JOSEPH COHEN, A.B., M.D., *Instructor in Clinical Pediatrics*  
THOMAS PATRICK CUNNINGHAM, M.D., *Instructor in Clinical Pediatrics*  
JOHN SEELEY ESTABROOK, B.S., M.D., *Instructor in Clinical Pediatrics*  
MERVIN FOSSNER, M.D., *Instructor in Clinical Pediatrics*

## DIVISION OF PREVENTIVE MEDICINE AND PUBLIC HEALTH

CHARLES FRANCIS DALTON, M.D., *Professor Emeritus of Public Health*  
CHARLES PERKINS MOAT, B.S., *Assistant Professor Emeritus of Public Health*  
WILLIAM EUSTIS BROWN, PH.B., C.P.H., M.D., *Professor of Preventive Medicine*  
LOUIS BENSON, B.E.E., M.D., *Assistant Professor of Preventive Medicine*  
ROBERT BASCOM AIKEN, PH.B., M.S., M.D., *Instructor in Industrial Hygiene*  
\*HENRY MAURICE FARMER, B.S., M.D., *Instructor in Preventive Medicine and Public Health*

\* Absent on military leave.

ERALD FAIRBANKS FOSTER, M.D., *Instructor in Public Health*

HENRY LEE MILLS, D.V.M., *Instructor in Public Health*

\*CLARENCE JESS SPEAS, D.D.S., *Instructor in Oral Hygiene and Dental Medicine*

CHARLES IVES TAGGART, D.M.D., *Instructor in Oral Hygiene and Dental Medicine*

EDWARD LAWRENCE TRACY, B.S., *Instructor in Public Health*

#### DIVISION OF PSYCHIATRY

RUPERT ADDISON CHITTICK, B.S., M.A., M.D., *Professor of Psychiatry*

JAMES EVANS ROY, B.S., M.D., *Assistant Professor of Psychiatry*

FREDERICK CHARLES THORNE, A.B., M.A., PH.D., M.D., *Assistant Professor of Psychiatry*

ELIZABETH KUNDERT, B.S., M.S., M.D., *Instructor in Psychiatry*

J. LOUIS PHILIPPE FOREST, A.B., M.D., *Instructor in Clinical Psychiatry*

HENRY ABNER LADD, M.D., *Instructor in Clinical Psychiatry*

#### SECOND YEAR:

##### I. *Physical Diagnosis*

One hour a week throughout the year is given to instruction in the methods of physical examination. This is followed by a two-hour session during which time the class is divided into small sections and assigned to members of the staff for demonstrations and practice in the technics outlined didactically.

##### II. *History Taking and Elementary Clinics*

Later in the year, and as a continuation of the above work, the class is further introduced to methods and findings in physical diagnosis through attendance at elementary clinics. In these clinics selected cases are demonstrated to small sections with the intention of emphasizing points of distinction between normal and abnormal findings. Principles of history taking are made an integral part of this work. A total of 96 hours for Courses I and II.

##### III. *Pathological Physiology Conference*

A two-hour session each week during the second semester is devoted to a discussion and interpretation of the disturbed physiological and biochemical processes underlying disease. This is a correlation conference in which members of both clinical and preclinical departments take an active part. Selected cases are presented for study and discussion. 64 hours. *The Staff.*

\* Absent on military leave.

## THIRD YEAR:

I. *General Medicine*

Two hours weekly throughout the year are assigned to a textbook survey of general medicine. Emphasis is placed on the more common disease conditions, full attention being given to their etiology, symptomatology, physical and laboratory findings. Collateral reading in current literature is required. 64 hours.

II. *Clinical Lectures in Medicine*

In addition to a textbook survey of medicine, one hour weekly is given to clinical lectures on selected problems in internal medicine at which time certain cases are presented for the demonstration of illustrative disease syndromes. The recognition and significance of such findings form the basis for the discussion. 32 hours.

III. *Tropical Medicine*

With the increasing participation of the United States in world-wide activities, tropical medicine assumes a new importance. Among the subjects covered in this division of medicine are malaria, the dysenteries, cholera, yellow fever, leprosy and yaws, trypanosomiasis, the leishmaniasis, schistosomiasis, filariasis, dengue and allied fevers. 16 hours.

IV. *Medical Jurisprudence*

Lectures are given on the right to practice, contractual relations between physician and patient, the law of malpractice, legal aspects of the physician's duties under public health laws, autopsies and reports thereon, medico-legal aspects of certain crimes, expert testimony, insanity, and judicial toxicological investigations. 16 hours. Judge Grout.

V. *Clinical-Pathological Conferences*

These conferences, held two hours weekly throughout the year, are within the scope of the Pathological Physiology Conferences begun in the second year. In this particular phase of the work, more emphasis is placed on clinical findings. However, preclinical fundamentals are again reviewed and special attention is given to their practical applications. 64 hours. The Staff.

VI. *Physical Diagnosis (Ward Work)*

Small sections are assigned to the hospital wards and the Dispensary for the afternoon periods four days each week for practical work in history taking, physical examinations, and laboratory diagnosis. Suitable subjects are selected without distinguishing between medical and surgical cases. This prevents to some extent the prejudging of the diagnosis of the case as either medical or surgical and serves to bring out the fact that many

medical cases have surgical aspects and that surgical problems likewise present difficulties from a medical point of view. While the assignments are made in small sections, the individual student carries on his own work and is expected to do his clerkship in much the same manner as the fourth-year student, the only difference being that the third-year men are carefully supervised, and the cases are selected and graded to the scholastic experience of third-year students. *Approximately 336 hours. The Staff.*

#### FOURTH YEAR:

##### *I. Clinical Clerkships*

The work of this year is done in small sections at the several teaching hospitals where the students serve as clinical clerks. Patients are assigned for history taking, physical examination, and the necessary laboratory work. Demonstrations, conferences, and ward rounds are made by the Staff.

The sections in rotation are at the Mary Fletcher, Fanny Allen, and Bishop DeGoesbriand Hospitals, and at the Dispensary. Each student spends two weeks in residence at the Vermont Sanatorium for tuberculosis in Pittsford, two at Brandon State School, and two at the Vermont State Hospital.

The section on City Service (domiciliary medicine) is also on service at the Dispensary during the clinic hours, and is quartered in the building. Students on this service make house calls under the supervision of the City Physician. This is a general, twenty-four hour service, and is of two weeks' duration.

The medical staff supervises the sections in the various hospitals.

Supplementary work in clinical neurology is added while sections are on service at the Worcester City Hospital. The work includes ward rounds, conferences, and clinical clerkships on both inpatient and outpatient services. Approximately one third of the month in Worcester is devoted to this service. *Drs. Vibber and Arnold.*

Additional work in communicable diseases is given at the Belmont Hospital in Worcester. The students spend a month in residence there. *Drs. Spangler and Cox.*

## DERMATOLOGY

#### THIRD YEAR:

Lectures and demonstrations are given covering etiology, diagnosis, and therapy of the more common skin diseases. Use is made of the projectoscope and lantern slide illustrations. *12 hours. Dr. Traub.*

Clinics are held at which students are assigned to patients in rotation for practice in history taking and method of procedure in examining patients. Emphasis is placed on the importance of being able to describe the manifestations of skin diseases in terms of the primary and secondary lesions of the skin. Each student demonstrates his case before the clinic



where possibilities regarding diagnosis are discussed. An outline of proposed therapy completes the presentation. 30 hours. Dr. Traub.

#### FOURTH YEAR:

Students attend the dermatology clinics at the Mary Fletcher Hospital and are assigned in rotation to attend the dermatology clinics at the Burlington Free Dispensary, held each Wednesday afternoon. Dr. Traub.

Additional clinical work in dermatology is available at the Worcester City Hospital in both the outpatient and inpatient departments. Dr. Disbrow.

### EXPERIMENTAL MEDICINE

The purpose of this newly established Division is to arouse the interest of qualified students and post-graduates in investigative work in the field of medicine. Opportunity will be afforded such individuals to study clinical problems of importance, with active participation in the work done.

At present the Division is investigating neurohormonal factors related to the pathogenesis and treatment of cardiovascular disease. A trained biochemist has been added to the staff to work on this important problem. It is hoped that research fellowships may soon become available for more extensive investigation in these fields.

### NEUROLOGY

#### THIRD YEAR:

##### *I. Neurology*

The course is begun with a short review of the anatomy and physiology of the nervous system. The subject is then developed into clinical neurology by means of didactic and clinical lectures. Special attention is given to methods of discovery and the interpretation of physical findings. One hour weekly throughout the year. 32 hours. Dr. Upton.

### PEDIATRICS

#### SECOND YEAR:

##### *I. Principles of Pediatrics*

One hour a week in the second semester is given to an introduction to the principles of pediatrics. This introductory course includes a discussion of normal growth and development together with the principles of infant feeding. The purpose of this course is to give the student some introduction to the subject before he takes up ward work in pediatrics in his third year. 16 hours. Dr. Corley.

#### THIRD YEAR:

##### *I. Principles of Pediatrics*

This course is a continuation of the work begun in the second year. In this particular course the subject matter continues with a discussion of the

diseases of infancy and childhood. Special attention is given to the measures for control of communicable disease. 32 hours. Drs. Corley and Corbin.

## II. *Introduction to Clinical Pediatrics*

As a part of the plan for introducing third-year students to their clinical clerkships, one month is assigned to ward work in pediatrics. Instruction is carried out both individually and as a group, the section never numbering more than four. Here the students are given an introduction to the problems of history taking in pediatrics and the development of such information to its full significance. As a part of this program, special attention is also given to methods of physical examination and the interpretation of physical findings in pediatrics. Indications for, and the use of laboratory procedures important to individual cases are given full consideration. Adequate explanation of therapeutic measures indicated is included. 48 hours. Dr. Corley.

## III. *Neuropsychiatry of Childhood*

(This course is outlined under the Division of Psychiatry.)

### FOURTH YEAR:

#### I. *Clinical Pediatrics*

Sections of four students each are assigned in rotation for a month as clinical clerks on the pediatrics services of the teaching hospitals in Burlington. Drs. Corley and Corbin.

Additional facilities for clinical pediatrics are available in the month's service at the Worcester City Hospital. Drs. Cunningham and O'Connor.

## PREVENTIVE MEDICINE AND PUBLIC HEALTH

### SECOND YEAR:

#### I. *Introduction to Public Health*

Lectures, demonstrations, and field trips.

The course includes studies in venereal disease control, sanitation, ventilation, water purification, sewage disposal, meat and milk supply, administration and functions of health agencies, both public and volunteer, and their proper relation to public health. 28 hours, second semester. Drs. Brown, Foster, Aiken, and Mills, and Mr. Tracy.

#### II. *Oral Hygiene and Dental Medicine*

The course includes a review of the fundamentals of dental embryology and histology and a correlation of oral developmental anatomy with general developmental anatomy. The fundamentals of dental terminology are reviewed to afford the medical student an opportunity to become freely conversant in dental problems discussed with the dentist and dental interne with whom he will ultimately come in contact.

Lectures making use of lantern slides, models, charts, and moving pictures follow this introduction and include the discussion of dental problems associated with prenatal care, pediatrics (including the dental problems of the adolescent), and the dental and medico-dental problems of adulthood. As a prerequisite to a better understanding of the clinical demonstration of dental cases in the senior year, the diagnosis and treatment of oral pathology and the dental care of hospital patients is covered in the course of lectures. *4 hours, second semester. Dr. Taggart.*

#### THIRD YEAR:

##### *I. Preventive Medicine*

The course is based on a study of the principles of preventive medicine as applied both to private practice and public health. The didactic work includes demonstrations of means and methods employed in the prevention of infectious disease. *8 hours, second semester. Drs. Benson and Brown.*

##### *II. Industrial Preventive Medicine*

This course, given in the second semester, will be based on the study of the principles of preventive medicine as applied to occupational hygiene. The didactic work includes demonstrations of means and methods now employed in industrial hygiene, and also includes demonstrations at some of the industrial plants of the methods discussed. The prevention of occupational diseases will take a large part of the time of this course. *8 hours. Dr. Aiken.*

#### FOURTH YEAR:

##### *I. Section Work*

Inasmuch as the City Dispensary houses a number of health agencies, arrangements for work are such that sections on service there are in close contact with public and volunteer agencies engaged in health and welfare activities. Students on city service are necessarily dependent upon a close liaison with the Howard Relief, the Visiting Nurses Association, the Vermont Crippled Children's organization, the bureaus for maternal welfare and child hygiene, the Vermont Tuberculosis Association, the state program for the control of venereal disease, and the functions of the State Health Department. *The Staff.*

Students on pediatrics assignment in Burlington are assigned to oral hygiene clinics at the Burlington Dental Dispensary. The clinics are under the direction of the State's Oral Hygienist and are designed for the study of problems in oral disease both from a preventive and a therapeutic standpoint. Since the majority of patients seen in these clinics are referred through agencies engaged in child health, the students in many instances are able to follow their patients not only through the medical services but through the dental clinic as well. *Dr. Taggart.*

## PSYCHIATRY

## SECOND YEAR:

I. *Medical Psychology*

This is an introductory course in Psychobiology, Mental Hygiene and Psychopathology. It includes a description of the psychobiological origins of the various personality reactions, together with the pathological mental mechanisms underlying the development of mental disorders. The psychology of simple maladjustment is discussed in detail with special emphasis on the understanding and treatment of situational problems in normal people. Psychosomatic medicine is discussed with special reference to the problems of the general practitioner. The lectures on mental hygiene outline the factors involved in the preservation of mental health. 32 hours. Dr. Thorne.

II. *Introductory Psychiatry*

This includes a brief discussion of the development of a personality and the mental mechanisms involved. With this as a basis, consideration is given to the evaluation of the normal personality and an understanding of the psychoneurotic and psychosomatic conditions. 10 hours. Dr. Chittick.

## THIRD YEAR:

I. *Psychiatry*

The didactic lectures of this course consider the major mental disorders, their incidence, etiological factors, pathology, symptomatology and treatment. It includes discussion of methods of examination and history taking. 20 hours. Dr. Chittick.

At the Vermont State Hospital in Waterbury, clinical lectures and demonstrations are given. These illustrate the various psychoneurotic and psychosomatic conditions encountered in the practice of medicine. The students are expected to participate in the open discussion of such cases. Approximately 12 hours. Dr. Chittick and Staff.

II. *Neuropsychiatry of Childhood*

Lectures and discussions are offered on the recognition, etiology, prevention, and treatment of the various behavior and personality disturbances encountered in childhood and adolescence. Neurogenic, psychogenic, and psychosomatic factors are considered in an attempt to give the student a working concept of the totally functioning child. 16 hours. Dr. Kundert.

## FOURTH YEAR:

I. *Clinical Psychiatry.*

Each student spends four weeks in residence at the Vermont State Hospital and two weeks at the Brandon State School. This assign-

ment includes ward rounds, history taking, observation and assistance in therapeutic measures used, and attendance at staff meetings and conferences.

Ward rounds and visits to the outpatient clinic in psychiatry are included in connection with the work in neurology at the Worcester City Hospital. On this particular service the student is given an introduction to certain phases of psychiatry not presented by the institutionalized patient. *Drs. Vibber and Arnold.*

## II. Mental Hygiene Clinics

Students on the Burlington pediatrics service are assigned in small groups to observe diagnostic and therapeutic procedures carried out at the Vermont Mental Hygiene Clinic for children in Burlington. Individual assignments are included and the student is expected to take histories and under supervision make examinations of patients seen at these clinics. Later the results of these findings are presented to the section for discussion. *20 hours. Dr. Thorne.*

## DEPARTMENT OF MEDICAL ETHICS AND MEDICAL RELATIONSHIPS

THOMAS STEPHEN BROWN, M.D., *Professor of Medical Ethics and Medical Relationships, Chairman of Department*

LYMAN ALLEN, A.B., M.D., *Professor Emeritus of Surgery*

CLARENCE HENRY BEECHER, M.D., *Professor of Medicine*

ERNEST HIRAM BUTTLES, A.B., M.D., *Professor of Pathology and Bacteriology*

RUPERT ADDISON CHITTICK, B.S., M.A., M.D., *Professor of Psychiatry*

CHARLES FRANCIS DALTON, M.D., *Professor Emeritus of Public Health*

HERBERT ASHLEY DUFFEE, A.B., M.D., *Professor of Obstetrics*

OLIVER NEWELL EASTMAN, M.D., *Professor of Gynecology*

CHESTER ALBERT NEWHALL, A.B., M.D., *Associate Professor of Anatomy*

EMMUS GEORGE TWITCHELL, A.B., M.D., *Professor of Ophthalmology, Otolaryngology, and Rhinology*

### THIRD YEAR:

#### I. Principles of Medical Ethics and Medical Relationships

In presenting the principles of medical ethics and in discussing medical relationships, this course draws upon the historical backgrounds of medicine for the precedents of medical practice and then progresses to a discussion of the problems of modern medicine and current trends toward their solution. Full attention is paid to the problems of post graduate medicine, beginning with internship and including a discussion of the relationships in which the physician may carry on his practice. One hour a week in the first semester. *8 hours. Dr. Brown and Staff.*

## THE DEPARTMENT OF OBSTETRICS AND GYNECOLOGY

HERBERT ASHLEY DURFEE, A.B., M.D., *Professor of Obstetrics, Chairman of Department*

OLIVER NEWELL EASTMAN, M.D., *Professor of Gynecology*

EDWARD DOUGLAS MCSWEENEY, A.B., M.D., *Assistant Professor of Gynecology*

WILLIAM JOSEPH SLAVIN, JR., B.S., M.D., *Assistant Professor of Clinical Obstetrics and Gynecology*

## SECOND YEAR:

*I. Introduction to Obstetrics*

The course includes a discussion of the anatomy of the female pelvis and reproductive organs. This is followed by a consideration of the course and mechanism of labor together with an introduction to the management of normal labor, normal puerperium and lactation. 32 hours. Dr. Durfee.

## THIRD YEAR:

*I. Principles of Obstetrics*

The course begins with a discussion of the physiology of reproduction and associated endocrinology. This is followed by a study of the management of normal and abnormal pregnancies including toxemias. Further studies in abnormal labor include a consideration of operative obstetrics. Gross and microscopic pathology are presented through the cooperation of the Department of Pathology. Demonstrations are given of normal and abnormal labors on the manikin and by motion pictures. 96 hours. Drs. Durfee and Slavin.

Demonstration ward rounds, in sections. 24 hours. Dr. Slavin.

*II. Principles of Gynecology*

Gynecological diseases are considered systematically, with special attention given to the more common disorders. In discussing treatment, the principal emphasis is placed on fundamentals and less stress is laid on operative technic. 32 hours. Dr. McSweeney.

During the second semester eight clinical lectures are given the class in the amphitheatre at the Mary Fletcher Hospital. Each student is furnished with a copy of the patient's record. The patient's history, physical findings, diagnosis and treatment are discussed. Students are allowed to participate in the examinations as far as it is practicable to do so. 8 hours. Drs. Eastman and Slavin.

## FOURTH YEAR:

*I. Clinical Obstetrics*

Students are assigned to section work for periods of one month. During term of assignment, students attend prenatal and postnatal clinics



at the Burlington Free Dispensary and the Elizabeth Lund Home. Labors are attended at the Mary Fletcher Hospital, the Elizabeth Lund Home, and in the Outpatient Department. In each instance, patients are assigned to individual students who, under the supervision of a clinical instructor, act as labor clerks, taking histories, making general physical and obstetrical examination and keeping detailed records. The labor clerk observes or assists at the actual deliveries.

## II. Clinical Gynecology

Students on the obstetrical assignment also serve as clinical clerks in gynecology on the gynecological service at the Mary Fletcher Hospital and at the gynecological clinic at the Burlington Free Dispensary. The plan is very much like that of other clinical clerkships in the fourth or senior year in that they are expected to work up their cases and follow them closely throughout the time spent under treatment or in the hospital. The plan for instruction further includes service ward rounds, assistance at operations in the hospital and assistance at diagnostic procedures in the hospital and at the clinic. Ample time and opportunity are allowed for close personal instruction in all instances. *Drs. Eastman, Durfee, McSweeney and Slavin.*

## THE DEPARTMENT OF OPHTHALMOLOGY, OTOLARYNGOLOGY AND RHINOLOGY

EMMUS GEORGE TWITCHELL, A.B., M.D., C.M., *Professor of Ophthalmology, Otolaryngology, and Rhinology, Chairman of Department*

KARL CORNELIUS MCMAHON, B.S., M.D., *Assistant Professor of Ophthalmology and Clinical Instructor in Otolaryngology and Rhinology*

PETER PAUL LAWLOR, M.D., *Assistant Professor of Otolaryngology and Rhinology and Clinical Instructor in Ophthalmology*

MARSHALL COLEMAN TWITCHELL, JR., A.B., M.D., *Instructor in Ophthalmology*

### THIRD YEAR:

The course includes discussion of the diseases of the lids, conjunctiva, orbit, lacrimal apparatus, cornea, uveal tract and fundus.

Lectures and practical demonstrations of the use of the ophthalmoscope, headmirror, and other instruments used in the examination of ear, nose, and throat, and methods used in estimating the refraction, are given at the Mary Fletcher Hospital to half the class at a time. In this work the students are drilled in the various tests of routine examinations, every effort being made to demonstrate methods which, though simple, are adequate and call for the minimum outlay for equipment. Lectures and recitations on the common diseases of the nose, throat, and ear are included.

Lectures and recitations. 32 hours. *Dr. E. G. Twitchell.*

## FOURTH YEAR:

Clinical instruction is given Tuesday and Friday afternoons of each week from two to four o'clock at the Mary Fletcher Hospital outpatient clinic. Inpatient cases are also used for teaching. Treatments and methods of treatment are shown and explained. *Dr. E. G. Twitchell and Dr. McMabon or Dr. M. C. Twitchell, Jr.*

Clinical instruction is also given Monday and Wednesday afternoons of each week from three to five-thirty o'clock at the Bishop DeGoesbriand Hospital outpatient clinics. *Dr. Lawlor.*

Sections assigned to the Fanny Allen and Fort Ethan Allen Hospitals participate in clinical work in this specialty.

Clinical instruction at the Burlington Free Dispensary is scheduled for Thursday afternoon of each week. *Drs. McMabon and Lawlor.*

Each student of the fourth year will be required to hand in a certain number of case reports and two theses, one on a subject concerned with Ophthalmology and one with Otolaryngology. The subject is to be chosen by the student with the approval of the teaching staff of this Department.

## THE DEPARTMENT OF PATHOLOGY

ERNEST HIRAM BUTTLES, A.B., M.D., *Professor of Pathology*

BJARNE PEARSON, B.S., M.B., M.D., M.S. (Med.), *Professor of Pathology, Chairman of Department*

THOMAS GAETANO MORRIONE, B.S., M.D., *Assistant Professor of Pathology*

ERNEST STARK, B.S., M.D., *Assistant Professor of Pathology*

MARY LORRAINE GANNON, B.S., M.D., *Fellow in Pathology*

DEANE FREMONT MOSHER, B.S., M.D., *Fellow in Pathology*

\*BURNETT SHELDON RAWSON, M.D., *Fellow in Pathology*

## SECOND YEAR:

I. *Pathology*

This course covers general pathology and special pathology of the circulatory and urinary systems and of the blood. Students are furnished with a loan collection of slides illustrative of common lesions, and these slides are supplemented by a large number of slides from autopsies or operations, for study and diagnosis. One of the chief aims of the course is to correlate the work of the preclinical and clinical years and for this purpose, during the latter part of the course, many case histories are used in conjunction with slides and gross tissues from the same cases.

During the second semester, one hour weekly is assigned to a conference conducted jointly by the Departments of Pathology, Physiology, and Medicine. At these conferences selected case histories are discussed and

\* Military leave.

an attempt made to explain the symptoms on a basis of changes in anatomy, physiology, and chemistry.

During the year, students are required to attend several autopsies, as a class or in small groups. They take notes of findings and in assigned cases examine and report upon the gross tissues and microscopic sections. Cases are discussed in class or with the group attending the autopsy.

Recitations, lectures and conferences, two hours per week. 64 hours.

Laboratory, five hours per week, first semester, and six hours per week during second semester. 176 hours. Drs. Pearson, Buttles and Staff.

### THIRD YEAR:

#### I. Pathology

This is a continuation of the course of the second year and covers special pathology. Students are supplied with a loan collection of typical slides and study many slides from operations or autopsies. Special emphasis is placed upon gross pathology as illustrated by museum preparations and material from autopsies and operating room.

Recitations, lectures and laboratory, four hours per week the first semester. 64 hours. Drs. Pearson, Buttles, and Staff.

#### II. Clinical-Pathological Conferences

These conferences are held weekly. Interesting cases are discussed by the clinician and pathologist. Gross material and lantern slides of microscopic sections of the cases under discussion are presented. Drs. Pearson, Buttles and Staff.

## THE DEPARTMENT OF PHARMACOLOGY

DAVID MARVIN, M.D., *Professor Emeritus of Pharmacology*

NICHOLAS BERNARD DREYER, B.A., M.A., M.R.C.S., L.R.C.P., *Professor of Pharmacology, Chairman of Department*

CLIFFORD SHATTUCK LEONARD, PH.B., M.S., PH.D., *Assistant Professor of Pharmacology*

The course in Pharmacology is given in the second semester of the second year.

Pharmacology is taught from the standpoint of the actions and uses of drugs in the prevention and treatment of disease. The course consists of lectures supplementing textbook and library assignments; laboratory experiments and demonstrations in mammalian pharmacodynamics; special lectures by visiting experts in clinical therapeutics; motion picture medical teaching films; demonstrations by expert pharmacists; prescription writing exercises; discussion conference. The objectives of the course are to provide a background of useful and basic pharmacological information,

to correlate pharmacology with related preclinical and clinical medical sciences, and to emphasize the applications of pharmacodynamics to therapeutics.

Lectures, conferences and laboratory. *152 hours, second semester. Drs. Dreyer and Leonard.*

*Elective:* Facilities are available to properly qualified students and others for research either independently or in cooperation with the members of the staff.

#### THE DEPARTMENT OF PHYSIOLOGY

FRED KINNEY JACKSON, A.B., M.D., *Professor Emeritus of Physiology*  
FERDINAND JACOB MORRIS SICHEL, B.S.C., SC.M., PH.D., *Professor of Physiology, Chairman of Department*  
PAUL GREEN LEFEVRE, B.A., PH.D., *Instructor in Physiology*

The course in Physiology covers a full academic year. The first half of the course is given in the second semester of the first year and the second half of the course in the first semester of the second year.

The course material is presented as a logical development of physiological concepts based on experimental evidence with a view to their ultimate clinical applications. The lectures are designed primarily to supplement the textbooks, particularly in respect to recent developments. The laboratories are equipped for experimental work and demonstrations illustrating and developing those physiological principles fundamental to clinical medicine. The laboratory work is directed toward quantitative determinations and evaluations, and includes a number of experiments on human subjects, as well as on other mammals.

##### FIRST YEAR:

The material covered in the first year includes the physiology of excitation, conduction, and contraction; blood, heart and circulation; respiration; the central nervous system; and the special senses.

Lectures and conferences, *64 hours*, laboratory, *96 hours*, second semester. *Drs. Sichel and LeFevre.*

##### SECOND YEAR:

The material covered in the second year includes the physiology of secretion, digestion, excretion, water balance, energy metabolism, and reproduction.

Lectures and conferences, *48 hours*, laboratory, *48 hours*, first semester. *Drs. Sichel and LeFevre.*

##### ELECTIVE:

Facilities are available to properly qualified students and others for research either independently or in cooperation with the members of the staff.

## THE DEPARTMENT OF SURGERY

LYMAN ALLEN, A.B., M.D., *Professor Emeritus of Surgery*

GEORGE MILLAR SABIN, B.S., M.D., *Professor Emeritus of Clinical Surgery*

ALBERT GEORGE MACKAY, B.S., M.D., *Professor of Surgery, Chairman of Department*

BENJAMIN DYER ADAMS, M.D., *Assistant Professor of Surgery*

\*WALFORD TUPPER REES, M.D., *Assistant Professor of Surgery*

KEITH FRANK TRUAX, B.S., M.D., *Assistant Professor of Surgery*

ARTHUR GLADSTONE, B.S., M.D., *Assistant Professor of Clinical Surgery*

ARTHUR RUSH HOGAN, A.B., M.D., *Assistant Professor of Clinical Surgery*

\*JOHN ABAJIAN, JR., M.D., *Assistant Professor of Anesthesia*

ADOLPHUS DUNCAN ROOD, M.D., *Visiting Professor of Bronchoscopy*

RICHARD HOLLIS OVERHOLT, A.B., M.D., *Consultant in Thoracic Surgery*

BENTON HOLM, A.B., M.D., *Instructor in Surgery*

\*LOUIS GEORGE THABAULT, M.D., *Instructor in Surgery*

\*ALBERT JAMES CRANDALL, B.S., M.D., *Instructor in Clinical Surgery*

JOHN FREDERICK LYNCH, B.S., M.D., *Instructor in Clinical Surgery*

MATTHEW TALMADGE MOOREHEAD, B.S., M.D., *Fellow in Surgery*

HARRY JOSEPH ANTONIEWICZ, B.S., M.D., *Assistant in Surgery*

CLARENCE EDWARD BOMBARD, B.S., M.D., *Assistant in Surgery*

## DIVISION OF ORTHOPEDIC SURGERY

DAVID MARSH BOSWORTH, A.B., M.D., *Visiting Professor of Orthopedic Surgery*

ROBERT LELAND MAYNARD, M.D., *Assistant Professor of Orthopedic Surgery*

## DIVISION OF RADIOLOGY AND PHYSICAL THERAPY

\*ARTHUR BRADLEY SOULE, JR., A.B., M.D., *Professor of Radiology*

OSCAR SYLVANDER PETERSON, JR., M.D., *Assistant Professor of Radiology*

NATHAN RENWICK CALDWELL, M.D., *Instructor in Clinical Radiology*

## DIVISION OF UROLOGY

WINTHROP MAILLOT FLAGG, M.D., *Assistant Professor of Urology*

LESTER MAHAN FELTON, B.S., M.D., *Assistant Professor of Clinical Urology*

LOUIS WILLIAM ESPOSITO, B.S., M.D., *Instructor in Urology*

\*NICHOLAS SALVATORE SCARCELLO, M.D., *Instructor in Clinical Urology*

\*GEORGE CHANDLER TULLY, B.S., M.D., *Instructor in Clinical Urology*

\* Absent on military leave.

## SECOND YEAR:

*I. Fractures and Dislocations*

Besides a routine covering of the ordinary fractures and dislocations, with the necessary diagnostic steps, including x-ray, and the various procedures for their proper reduction, there is a demonstration of apparatus and its application. The occasional advisability of open reduction and internal fixation is made clear, with its dangers and advantages. The necessity of temporary splinting before transportation is insisted upon. A weekly review of all fracture cases admitted to the Mary Fletcher Hospital is made, with particular emphasis on the cause of displacement and treatment. X-ray films are used extensively. 32 hours. Dr. Maynard.

*II. General Surgery*

A textbook, recitation, and quiz course with informal discussions or lectures and case presentations. Equipment is demonstrated. An effort is made to make clear the connection between surgery and the preclinical subjects of Anatomy (including Histology), Physiology, Bacteriology, and Pathology. Diagnosis is especially stressed.

The topics covered are: inflammation and repair, burns, wounds, infections and injuries to or diseases of the tendons, muscles and ligaments, bursae, vascular and lymphatic systems, osteomyelitis, and amputations; also aseptic surgical technic and minor surgical procedures. 64 hours. Drs. Holm and Antoniewicz.

*III. Practical Surgery*

Bandaging, use of splints and other surgical appliances, work with plaster of Paris. The student applies the bandages to all parts of the body and his work is criticized by the instructor. Taught in small sections. 10 hours per section. Dr. Lynch.

## THIRD YEAR:

*I. General and Regional Surgery*

The course is covered largely by case histories, with prerequisite reading of textbooks or medical journals on the subject under discussion. Differential diagnosis is emphasized and operative technic minimized. 64 hours. Drs. Mackay, Truax and Gladstone.

*II. Surgical Anatomy*

This course is, to some extent, a review of the students' previous anatomical studies, with the special object of showing anatomical relationships in the more usual surgical operations such as those for hernia, appendicitis, cholecystitis, thyroidectomy, infected hands, and so forth. 16 hours. Dr. Gladstone.



### III. *Anesthesiology*

The object of this course is to give the student a theoretical knowledge of the subject before he gives anesthetics (under supervision) during his fourth year. 16 hours. *Dr. Mackay and Staff.*

### IV. *Clinical-Pathological Conferences*

These conferences are supervised by various members of the Medical, Surgical, and Pathological Departments, and are included in the text of the Departments of Medicine and Pathology. 64 hours.

### V. *Rectal Diseases*

A clinical demonstration and discussion of diseases of the anus, rectum, and colon, is held at the Mary Fletcher Hospital during the year when the special lecturer in Dermatology is not teaching. 12 hours. *Dr. Adams.*

### VI. *Tumor Clinic*

Every Wednesday a tumor clinic is held at the Mary Fletcher Hospital under the direction of the faculty of the College of Medicine. Patients are examined by members of the faculty representing all clinical departments of the College. Sections of third and fourth year students assist in examining patients and receive the benefit of close observation of a large group of patients under treatment for malignant disease. Through the facilities of the Vermont State Cancer Commission, a close follow-up is obtained on all patients enrolled in the tumor clinic. *Dr. Mackay and Staff.*

## FOURTH YEAR:

### I. *Sections*

The class is divided into sections which, under the supervision of the surgical teachers, act as clinical clerks and assistants in the Mary Fletcher, Bishop DeGoesbriand, and Fanny Allen Hospitals, and in the Dispensary or on City Service, rotating in their appointments. The section at the Mary Fletcher Hospital meets daily for instruction by the full-time staff, and also meets once a week for a surgical clinic, paper clinic, or discussion, with Dr. Mackay. Sections in minor surgery and diagnosis are assigned at the Dispensary, two hours a day, six days a week. 320 hours. *Dr. Mackay and Staff.*

### II. *Clinical Anesthesiology*

The fourth year students in rotation are given practical instruction in anesthesia at the Mary Fletcher Hospital under the direct supervision of the Assistant Professor of Anesthesia.

### III. *Endoscopy*

Every Monday at 3:30 p.m. a clinic is held for senior students which includes laryngoscopy, bronchoscopy, esophagoscopy, and gastroscopy, at the Mary Fletcher Hospital. *Dr. Mackay.*

## ORTHOPEDIC SURGERY

## THIRD YEAR:

The didactic and clinical course is held at the Mary Fletcher Hospital where Dr. David Bosworth meets the class every other Saturday. To the clinics are brought referred cases from physicians and the hospital. *Drs. Bosworth and Maynard.*

## FOURTH YEAR:

The surgical section on Monday morning is primarily used to demonstrate orthopedic cases in the surgical wards at the Mary Fletcher Hospital. *Dr. Maynard.*

## RADIOLOGY AND PHYSICAL THERAPY

## FIRST YEAR:

*I. Introduction to Radiology*

Lectures and demonstrations in conjunction with Departments of Physiology and Anatomy. Physics and general principles of radiology; normal roentgen anatomy and physiology; fluoroscopic demonstrations of chest. *8 hours. Dr. Peterson.*

## SECOND YEAR:

*I. Radiology*

Continuation of fluoroscopic and roentgenographic demonstrations in conjunction with Departments of Physiology and Anatomy.

Effects of radiation on normal and abnormal tissues; radiosensitivity; radiotherapy. Lectures given by arrangement with the Department of Pathology. *2 hours. Dr. Peterson.*

## THIRD YEAR:

*I. Radiology*

Diagnostic and therapeutic radiology; lectures and demonstrations one hour weekly through the year, covering the diagnosis of abnormalities of the skeletal system, alimentary tract, urinary tract, central nervous system; considerations of the use of x-ray and radium in the treatment of neoplasms, endocrine disturbances, and inflammatory lesions. *32 hours. Dr. Peterson.*

*II. Radiology Section Work*

One section of four to six students spends two afternoons a week for four weeks in the radiology department of the Mary Fletcher Hospital. Students thus have an opportunity to observe the use of radiologic procedures in medical practice. *Dr. Peterson.*

### III. *Physical Therapy*

Lectures on the physics and general principles of physical therapy, including dry and moist heat, massage and manipulation, ultra-violet and infra-red rays. Indications and contra-indications and methods of applications of each. 8 hours. *Dr. Peterson.*

#### FOURTH YEAR:

##### I. *Radiology Conferences*

Weekly conferences on general radiological problems, and current literature. Members of other clinical departments are present at most of these sessions. Each student is required to prepare a paper on some phase of radiology for presentation before the group at some time during the year. 48 hours.

##### II. *Physical Therapy Clinics*

Three days a week at the Burlington Free Dispensary. Section demonstrations and discussions of physical therapy at hospitals, dispensary and other institutions.

## UROLOGY

#### THIRD YEAR:

One hour weekly during the second semester is given to a discussion of the diseases of the genito-urinary system. 16 hours. *Dr. Flagg.*

#### FOURTH YEAR:

##### I. *Urology and Venereal Diseases*

Sections of four students each spend a month in Worcester, Massachusetts, where each day is given to clinical clerkships in the Department of Urology at the Worcester City Hospital. The work is divided equally between inpatient and outpatient services. The outpatient service includes attendance at the City Clinic for Venereal Diseases. *Dr. Felton.*

Work in Burlington includes ward rounds Thursday mornings and observation of surgical operations at the Mary Fletcher Hospital. *Dr. Flagg.*

## MEDICO-MILITARY SCIENCE

## MEDICAL UNIT—RESERVE OFFICERS TRAINING CORPS

CHARLES EUGENE FOGG, M.D., LT. COL., U.S.A., *Professor of Medico-Military Science; Commandant, Medical Unit.*

Under the current Army Specialized Training Program, Specialized Training Units are established at each institution with which the War Department executes a contract for such activity.

A Medical Training Unit has been established at the College of Medicine which includes all undergraduate students who have been accepted in the Enlisted Reserve Corps, Army of the United States and such enlisted personnel of the Medical Department of the Army who have been selected for assignment to training at this University. The personnel of the Medical Training Unit is placed on a status of active military duty, the Unit being organized as a Company with trainees acting as cadet officers and non-commissioned officers. The administration and training of the Unit is in accordance with the provisions of Army Regulations under the supervision of Army personnel.

In addition to the prescribed technical medical courses of the College curriculum, trainees pursue an augmented course in Military Medicine and instruction in military drill. The object of the training program is to prepare trainees for service as Medical Officers in the armed forces.

Each of the four years of instruction comprises sixty-four hours of technical medical subjects of the regular curriculum and thirty-two hours of Military Medicine, instruction and drill. The principal military subjects include Military Fundamentals, the organization of the Army and Medical Department and their medical services, the tactical employment of Medical Department units with the ground force and air force units, Military Sanitation, Military Preventive Medicine, Aviation Medicine, the Military Aspects of Chemical Warfare and the Diseases and Injuries Peculiar to War.

A Classification Board, jointly representing the University and the War Department is established to determine the status of trainees at the end of each term of instruction. The Classification Board formulates recommendations to the War Department for the disposition of trainees based upon their prospective availability for specialized service in the Army of the United States.

## GRADUATES—DOCTORS OF MEDICINE

SEPTEMBER 1944

Lawrence Martin Agan, B.S.	Bennington
Robert William Agan, B.S.	Bennington
Lawrence Arthur Beauchamp, B.S.	Rutland
Robert Paul Beaudette, B.S.	Montpelier
John Ernest Belock, A.B.	Rutland
George Wilson Brooks, B.S.	Warren
John Loring Costello, B.S.	Rutland
Wilton Warner Covey, A.B.	Brattleboro
Joseph Charles Creed, B.S.	Rutland
Harriet Pearson Dustan, B.S.	Craftsbury Common
Mary Lorraine Gannon, B.S.	Fairfield
Robert Seamon Goldberg, B.S.	Burlington
Gerald Leon Haines, B.S.	Barre
Ethan Victor Howard, Jr., B.S.	Burlington
Edward Allen Keenan, Jr., B.S.	Burlington
Thomas Aloysius Keenan, B.S.	Rutland
Paul Kingston Larnier, B.S.	Burlington
Richard George Lynch, B.S.	Burlington
John Frederick Moore, B.S.	Fair Haven
William Wolfe Musicant, B.S.	Brooklyn, N. Y.
Henri Louis Pache, B.S.	Great Barrington, Mass.
Christopher George Palans, B.S.	Burlington
Stanley John Pekala, B.S.	Northampton, Mass.
John Madison Perry, B.S.	Plainfield
James David Sawyer, B.S.	St. Albans
Roger Frederick Smith, B.S.	Waitsfield
Robert Donald Wakefield, B.S.	Burlington

## DOCTORS OF MEDICINE—CUM LAUDE

Lloyd Gibson Bartholomew, A.B.	Whitehall, N. Y.
Donald Holden Harwood, B.S.	Dorset
Harold Moskovitz, PH.B.	Burlington
Alfred Jerome Swyer, A.B., 2ND LT., M.A.C., A.U.S.	Rutland
John Joseph Zellinger, B.S.	St. Albans

FIRST LIEUTENANTS, MEDICAL RESERVE CORPS,  
ARMY OF THE UNITED STATES

SEPTEMBER 1944

Lawrence Martin Agan, B.S., M.D.	Bennington
Robert William Agan, B.S., M.D.	Bennington
Lloyd Gibson Bartholomew, A.B., M.D.	Whitehall, N. Y.
Lawrence Arthur Beauchamp, B.S., M.D.	Rutland
John Ernest Belock, A.B., M.D.	Rutland
John Loring Costello, B.S., M.D.	Rutland
Joseph Charles Creed, B.S., M.D.	Rutland
Robert Seamon Goldberg, B.S., M.D.	Burlington
Gerald Leon Haines, B.S., M.D.	Barre
Donald Holden Harwood, B.S., M.D.	Dorset
Ethan Victor Howard, Jr., B.S., M.D.	Burlington
Edward Allen Keenan, Jr., B.S., M.D.	Burlington
Thomas Aloysius Keenan, B.S., M.D.	Rutland
Paul Kingston Larnier, B.S., M.D.	Burlington
Richard George Lynch, B.S., M.D.	Burlington
Harold Moskovitz, PH.B., M.D.	Burlington
William Wolfe Musicant, B.S., M.D.	Brooklyn, N. Y.
Henri Louis Pache, B.S., M.D.	Great Barrington, Mass.
Christopher George Palans, B.S., M.D.	Burlington
Stanley John Pekala, B.S., M.D.	Northampton, Mass.
John Madison Perry, B.S., M.D.	Plainfield
James David Sawyer, B.S., M.D.	St. Albans
Roger Frederick Smith, B.S., M.D.	Waitsfield
Robert Donald Wakefield, B.S., M.D.	Burlington
John Joseph Zellinger, B.S., M.D.	St. Albans

FIRST LIEUTENANTS, MEDICAL CORPS, ARMY OF THE  
UNITED STATES

Robert Paul Beaudette, B.S., M.D.	Montpelier
George Wilson Brooks, B.S., M.D.	Warren
Wilton Warner Covey, A.B., M.D.	Brattleboro
John Frederick Moore, B.S., M.D.	Fair Haven



P R I Z E S

SEPTEMBER 1944

CARBEE PRIZE

*For greatest proficiency in the subject of Obstetrics*

Lloyd Gibson Bartholomew, A.B.

Donald Holden Harwood, B.S.

PSYCHIATRY PRIZE

*To the senior having the highest standing in Psychiatry*

Wilton Warner Covey, A.B.

WOODBURY PRIZES IN MEDICINE

*For greatest proficiency in Clinical Work in senior year*

Lloyd Gibson Bartholomew, A.B.

Donald Holden Harwood, B.S.

*To the sophomore having the highest standing for two years  
of Medical Work*

Edna Dole Backup, B.S.

NU SIGMA NU MERIT AWARDS

*To the outstanding student in the freshman class*

Edward Byington Crane

*To the outstanding student in the junior class*

Robert Emmett O'Brien, B.S.

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## INTERNSHIP APPOINTMENTS

## GRADUATES, ACADEMIC YEAR—SEPTEMBER 1944

Lawrence Martin Agan	Stamford Hospital, Stamford, Conn.
Robert William Agan	Stamford Hospital, Stamford, Conn.
Lloyd Gibson Bartholomew	
	Mary Hitchcock Memorial Hospital, Hanover, N. H.
Lawrence Arthur Beauchamp	Waterbury Hospital, Waterbury, Conn.
Robert Paul Beaudette	
	Lawrence and Memorial Hospitals, New London, Conn.
John Ernest Belock	Salem Hospital, Salem, Mass.
George Wilson Brooks	Mary Fletcher Hospital, Burlington, Vt.
John Loring Costello	United Hospital, Port Chester, N. Y.
Wilton Warner Covey	Eastern Maine General Hospital, Bangor, Me.
Joseph Charles Creed	Springfield Hospital, Springfield, Mass.
Harriet Pearson Dustan	Mary Fletcher Hospital, Burlington, Vt.
Mary Lorraine Gannon	Springfield Hospital, Springfield, Mass.
Robert Seamon Goldberg	Queens General Hospital, Long Island, N. Y.
Gerald Leon Haines	Worcester City Hospital, Worcester, Mass.
Donald Holden Harwood	Mary Fletcher Hospital, Burlington, Vt.
Ethan Victor Howard, Jr.	Bishop DeGoesbriand Hospital, Burlington, Vt.
Edward Allen Keenan, Jr.	Starling Loving Hospital, Columbus, Ohio
Thomas Aloysius Keenan	Staten Island Hospital, Staten Island, N. Y.
Paul Kingston Larner	Mary Fletcher Hospital, Burlington, Vt.
Richard George Lynch	St. Mary's Hospital, Brooklyn, N. Y.
John Frederick Moore	St. Vincent's Hospital, Bridgeport, Conn.
Harold Moskovitz	Queens General Hospital, Jamaica, L. I., N. Y.
William Wolfe Musicant	Queens General Hospital, Jamaica, L. I., N. Y.
Henri Louis Pache	William Backus Hospital, Norwich, Conn.
Christopher George Palans	Quincy City Hospital, Quincy, Mass.
Stanley John Pekala	St. Luke's Hospital, Pittsfield, Mass.
John Madison Perry	Quincy City Hospital, Quincy, Mass.
James David Sawyer	William Backus Hospital, Norwich, Conn.
Roger Frederick Smith	Meriden Hospital, Meriden, Conn.
Alfred Jerome Swyer	Brooklyn Jewish Hospital, Brooklyn, N. Y.
Robert Donald Wakefield	St. Francis Hospital, Hartford, Conn.
John Joseph Zellinger	United Hospital, Port Chester, N. Y.

## GRADUATES—DOCTORS OF MEDICINE

JUNE 1945

Clifford Elliott Backup, A.B.	Jericho
Gerhard Theodor Beck, B.S.	Rutland
George Arthur Bonner, B.S.	Westport, N. Y.
Nicholas Gerald Bottiglieri, B.S.	Whitehall, N. Y.
Martin John Cannon, B.S.	Rutland
Julius George Cohen, B.S.	Burlington
John Dominic Dimichele, B.S.	Poultney
Ernest Albert Dunbar, Jr., B.S.	Barre, Mass.
James Warren Dykens, B.S.	Worcester, Mass.
Winston Milo Eddy, B.S.	Burlington
Terence Frederick Gage, B.S.	Vergennes
Charles William Jones, A.B.	Haverhill, Mass.
Victor Leonidies Karren, B.S.	Yonkers, N. Y.
Harry James Kelly, A.B.	Northampton, Mass.
Herman Alexander LeBow, B.S.	Burlington
Samuel Levine, B.S.	Burlington
Joseph Nicholas Lioni, B.S.	Proctor
Joanna Jeanne Metcalf, B.S.	Waterbury
Clifford Atherton Pease, Jr., B.S.	Burlington
John Christie Robinson, B.S.	Blandford, Mass.
David George Rousseau, B.S.	Grand Isle
Joseph Nicholas Russo, B.S.	Hartford, Conn.
William Emil Schumacher, A.B.	Laurelton, N. Y.
William Bernard Shea, Jr., B.S.	Bennington
William Hempstead Sisson, B.S.	Burlington
James Albert Sudbay, Jr., B.S.	Gloucester, Mass.
Robert James Vernlund, B.S.	West Hartford, Conn.
Eva Brynhild Wallen, A.B.	Burlington
Dean Herbert Wheeler, B.S.	Enosburg Falls
Wayne Phillip Whitcomb, A.B.	Burlington
Gerald Philip Wiedman, B.S.	Burlington

## DOCTORS OF MEDICINE—CUM LAUDE

Sanford Savin, B.S.	Bridgeport, Conn.
Robert Nolan Cain, B.S.	Burlington
Robert Emmett O'Brien, B.S.	Winooski
Leigh Gates Abbott, B.S.	Weston, Mass.
Harold Gordon Page, B.S.	South Ryegate

FIRST LIEUTENANT, MEDICAL RESERVE CORPS  
ARMY OF THE UNITED STATES

JUNE 1945

James Albert Sudbay, Jr., B.S., M.D.

Gloucester, Mass.

FIRST LIEUTENANTS, MEDICAL CORPS  
ARMY OF THE UNITED STATES

Leigh Gates Abbott, B.S., M.D.	Weston, Mass.
Clifford Eliott Backup, A.B., M.D.	Jericho
Gerhard Theodor Beck, B.S., M.D.	Rutland
George Arthur Bonner, B.S., M.D.	Westport, N. Y.
Nicholas Gerald Bottiglieri, B.S., M.D.	Whitehall, N. Y.
Robert Nolan Cain, B.S., M.D.	Burlington
Martin John Cannon, B.S., M.D.	Rutland
Julius George Cohen, B.S., M.D.	Burlington
John Dominic Dimichele, B.S., M.D.	Poultney
Ernest Albert Dunbar, Jr., B.S., M.D.	Barre, Mass.
James Warren Dykens, B.S., M.D.	Worcester, Mass.
Winston Milo Eddy, B.S., M.D.	Burlington
Charles William Jones, A.B., M.D.	Haverhill, Mass.
Victor Leonidies Karren, B.S., M.D.	Yonkers, N. Y.
Harry James Kelly, A.B., M.D.	Northampton, Mass.
Herman Alexander LeBow, B.S., M.D.	Burlington
Samuel Levine, B.S., M.D.	Burlington
Joseph Nicholas Lionti, B.S., M.D.	Proctor
Robert Emmett O'Brien, B.S., M.D.	Winooski
Harold Gordon Page, B.S., M.D.	South Ryegate
Clifford Atherton Pease, Jr., B.S., M.D.	Burlington
John Christie Robinson, B.S., M.D.	Blandford, Mass.
David George Rousseau, B.S., M.D.	Grand Isle
Joseph Nicholas Russo, B.S., M.D.	Hartford, Conn.
Sanford Savin, B.S., M.D.	Bridgeport, Conn.
William Bernard Shea, Jr., B.S., M.D.	Bennington
Dean Herbert Wheeler, B.S., M.D.	Enosburg Falls
Wayne Phillip Whitcomb, A.B., M.D.	Burlington

LIEUTENANTS, JUNIOR GRADE, MEDICAL CORPS  
NAVAL RESERVE OF THE UNITED STATES

William Emil Schumacher, A.B., M.D.  
Robert James Vernlund, B.S., M.D.

Laurelton, N. Y.  
West Hartford, Conn.

P R I Z E S

JUNE 1945

CARBEE PRIZE

*For greatest proficiency in the subject of Obstetrics*

Harry James Kelly, A.B.

Joanna Jeanne Metcalf, B.S.

PSYCHIATRY PRIZE

*To the senior having the highest standing in Psychiatry*

Eva Brynhild Wallen, A.B.

WOODBURY PRIZES IN MEDICINE

*For greatest proficiency in Clinical Work in senior year*

Nicholas Gerald Bottiglieri, B.S.

Robert Emmett O'Brien, B.S.

*To the sophomore having the highest standing for two years  
of Medical Work*

Stanley Melvin Rapoport, M.A.

NU SIGMA NU MERIT AWARDS

*To the outstanding student in the freshman class*

Winston Earle Cochran, B.S.

*To the outstanding student in the junior class*

Edna Dole Backup, B.S.

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# INTERNSHIP APPOINTMENTS

## GRADUATES, ACADEMIC YEAR—JUNE 1945

Leigh Gates Abbott	Worcester City Hospital, Worcester, Mass.
Clifford Elliott Backup	Virginia Mason Hospital, Seattle, Wash.
Gerhard Theodor Beck	Mary Fletcher Hospital, Burlington, Vt.
George Arthur Bonner	Hospital of St. Raphael, New Haven, Conn.
Nicholas Gerald Bottiglieri	Hospital of St. Raphael, New Haven, Conn.
Robert Nolan Cain	United Hospital, Port Chester, N. Y.
Martin John Cannon	St. Vincent's Hospital, New York, N. Y.
Julius George Cohen	Lincoln Hospital, New York, N. Y.
John Dominic Dimichele	Queen of Angels Hospital, Los Angeles, Calif.
Ernest Albert Dunbar, Jr.	Worcester Memorial Hospital, Worcester, Mass.
James Warren Dykens	Worcester City Hospital, Worcester, Mass.
Winston Milo Eddy	Flower and Fifth Avenue Hospitals, New York, N. Y.
Terence Frederick Gage	Springfield Hospital, Springfield, Mass.
Charles William Jones	Eastern Maine General Hospital, Bangor, Me.
Victor Leonidies Karren	United Hospital, Port Chester, N. Y.
Harry James Kelly	St. Vincent Hospital, Worcester, Mass.
Herman Alexander LeBow	Beth Israel Hospital, New York, N. Y.
Samuel Levine	Staten Island Hospital, Staten Island, N. Y.
Joseph Nicholas Lioni	Salem Hospital, Salem, Mass.
Joanna Jeanne Metcalf	Newton General Hospital, Newton, Mass.
Robert Emmett O'Brien	Mary Fletcher Hospital, Burlington, Vt.
Harold Gordon Page	Mary Fletcher Hospital, Burlington, Vt.
Clifford Atherton Pease	Mountainside Hospital, Montclair, N. J.
John Christie Robinson	Eastern Maine General Hospital, Bangor, Me.
David George Rousseau	William Backus Hospital, Norwich, Conn.
Joseph Nicholas Russo	Hartford Hospital, Hartford, Conn.
Sanford Savin	Jewish Hospital, Brooklyn, N. Y.
William Emil Schumacher	Naval Hospital, New Orleans, La.
William Bernard Shea, Jr.	Samaritan Hospital, Troy, N. Y.
William Hempstead Sisson	Mary Fletcher Hospital, Burlington, Vt.
James Albert Sudbay, Jr.	United Hospital, Port Chester, N. Y.
Robert James Vernlund	Hartford Hospital, Hartford, Conn.
Eva Brynhild Wallen	Hospital of the Woman's Medical College, Philadelphia, Pa.
Dean Herbert Wheeler	Harrisburg Polyclinic Hospital, Harrisburg, Pa.
Wayne Phillip Whitcomb	Stamford Hospital, Stamford, Conn.
Gerald Philip Wiedman	Queens General Hospital, Jamaica, L. I., N. Y.



## REGISTER—1945-1946

## FOURTH YEAR:

*Date of graduation, April, 1946*

Donald Thomas Akey	Burlington	Thomas Joseph Keighley, B.S.	Burlington
Edna Frances Dole Backup, B.S.	Jericho	Stanley Marshal Kemler, B.S.	
Phillip Henry Backup, A.B.	Jericho		Medford, Mass.
Frederick Charles Barrett, B.S.	Milton	Albert Clark Kinney, Jr., A.B.	Hardwick
Edward Robert Bove, B.S.	Rutland	Howard Hodgson MacDougall, B.S.	
Saul Boyarsky, B.S.	Burlington		Hammonton, N. J.
William Joseph Clark, Jr., B.S.		John Francis McGarry, A.B.	Proctor
	Scarsdale, N. Y.	James Bishop McGill, B.S.	St. Johnsbury
Rodolfo Lester Coletti, B.S.	Barre	John Joseph McGrath, B.S., M.ED.	
George Herbert Dickinson, Jr., B.S.			Adams, Mass.
	Meriden, Conn.	Harmon Jack Machanic, B.S.	Burlington
Wilfred Theodore Reed Elliott, B.S.		Gilbert Manheim, B.S.	Rutland
	St. Johnsbury	Thomas Patrick Mullaney, Jr.	Barton
Lester Frank, B.S.	Burlington	John Edwin Nichols, B.S.	Rutland
John Riess Fuller, B.S.	Burlington	Gerald Francis Parkhurst, B.S.	Burlington
Russell Francis Gervais, B.S.	Winooski	Jay Roger Plimpton, A.B.	Harrison, N. Y.
Richard Carman Hay, B.S.	Burlington	Thomas Rider Plowright, B.S.	
Lloyd Norman Hazen, B.S.	Richmond		Goffstown, N. H.
Stedman George Huard, B.S.	Burlington	Shirley Geraldine Price, B.S.	Springfield
Charles Irwin, B.S., M.S.		Louis Michael Rozek, B.S.	Berlin, N. H.
	New London, Conn.	Robert Alden Struthers, A.B.	Portland, Ore.
Patrick Anthony Izzo	Quebec	LeGrand Hendry Thomas, B.S.	Burlington
		Frederick Henry Treder, B.S.	Scotia, N. Y.

## THIRD YEAR:

*Probable date of graduation, April 1947*

Ellen Frances Birchall, A.B., M.S.		Vincent August Manjoney	Bridgeport, Conn.
	Burlington	Philip Wallace Mayo	Rutland
George Henry Bray	New Britain, Conn.	William Wayne Montgomery	W. Rutland
Eugene Robert Chisholm, A.B.	Montpelier	James Patrick Moriarty, B.S.	
Paul Herbert Crandall, B.S.			Springfield, Mass.
	Essex Junction	Clyde Robert Morron	Rutland
Edward Byington Crane, A.B.	Burlington	Ronald Howard Neal, B.S.	Laconia, N. H.
Porter Hinman Dale, B.S.	Island Pond	James Ryder Neary, B.S.	Burlington
Robert Charles Doherty, A.B.		Robert Kay Nolan, B.S.	Norwich, Conn.
	Burlington	Kenneth Arnold Parmelee	Stratford, Conn.
Delmer Dennis Durgin, B.S.		John Cochrane Patten, B.S.	
	Central Islip, N. Y.		Claremont, N. H.
William Arthur Flood, A.B.	N. Bennington	John Hollister Perry-Hooker, B.S.	
Thomas Murray Holcomb, A.B.	Burlington		Wells River
Donald Walter Humphreys, B.S.		Stanley Melvin Rapoport, A.B., M.A.	
	Bennington		New York City
Milton Reuben Kaufman, A.B.		Wilfrid Louis Thabault, B.S.	Winooski
	Mountaindale, N. Y.	Henry Thomas Tulip, B.S.	Burlington
Bernard Marvin Kaye, B.S.	Brandon	Alice Dolores Tyndall, B.S.	
David Samuel Kenet, B.S.	Springfield		Weebawken, N. J.
Robert William Linchan, B.S.		Robert Reed Wadlund	Wethersfield, Conn.
	Glens Falls, N. Y.	Philip Henry Welch	Milton
Harry Cyril McNamara, B.S.	Valatie, N. Y.	John Morgan Wood	Hartford, Conn.

## SECOND YEAR:

*Probable date of graduation, June 1948*

- Edwin Brown Adams, B.S., M.S. *Burlington*  
 Arthur Joseph Barker *Somerville, Mass.*  
 Seymour James Baum, A.B. *Bridgeport, Conn.*  
 Alexander Eli Bayer *New Britain, Conn.*  
 John Douglas Boardman *Burlington*  
 Shirley Rose Boulanger, B.S., M.S. *Hanson, Mass.*  
 Heath Douglas Bourdon *Claremont, N. H.*  
 Edward Stillman Bundy, A.B. *Southington, Conn.*  
 Wallace Frederick Buttrick *Burlington*  
 Winston Earle Cochran, B.S. *Morrisville*  
 Cleveland Ray Denton, B.S. *Burlington*  
 Herbert Ashley Durfee, Jr. *Burlington*  
 Karl Wayne Erwin, B.S. *Burlington*  
 William Thomas Fagan, Jr., B.S. *Rutland*  
 Stanley Samuel Fieber *Brooklyn, N. Y.*  
 Michael Thomas Giacomarra, B.S. *S. Ozone Park, N. Y.*  
 Leo Paul Giardi, B.S. *Hartford, Conn.*  
 Julian John Goodman *Boston, Mass.*  
 Paul Edward Griffin *Herkimer, N. Y.*  
 Don Allen Guinan *Northampton, Mass.*  
 Raymond Dyer Higgins, Jr., A.B. *Dennysville, Me.*  
 Lloyd Malcolm Horlick, B.S. *Everett, Mass.*
- Roderick Julius Humphreys, B.S. *Bennington*  
 Edwin Francis Jones *Oakland, Calif.*  
 Cecil Harry Kimball *Burlington*  
 James Andrew Long *Bristol*  
 Donald Jude MacPherson *Lynn, Mass.*  
 Edwin David Meyers, B.S. *Manchester Depot*  
 Brian Edward Nolan *Newton Highlands, Mass.*  
 Malcolm Jack Paulsen, B.S. *Danville*  
 George Lewis Saiger, B.S. *Burlington*  
 Paul Leonard Schoenberg, A.B. *New York, N. Y.*  
 Frederick Edward Smith, B.S. *Springfield*  
 Francis Roger Sterling, B.S. *Providence, R. I.*  
 James William Tierney, B.S. *Norwalk, Conn.*  
 Anne Duncan Weld, A.B. *Northampton, Mass.*  
 William Loren West *Shelton, Conn.*  
 Royce Ernest Whittier, B.S. *Concord, N. H.*  
 Thomas Wykoff Williams *N. Sutton, N. H.*  
 Betty May Young *Baltimore, Md.*

## FIRST YEAR:

*Probable date of graduation, June 1949*

- Richard James Baker, Jr. *Garfield, N. J.*  
 Aglaia Christy Ballas *Brattleboro*  
 James Roland Blanchard, B.S. *Morenci, Mich.*  
 Richard Emile Bouchard *Bridgeport, Conn.*  
 Constance Wheeler Brownell *Burlington*  
 James Arthur Bulen *Escondido, Calif.*  
 Leonard Vincent Crowley *Binghamton, N. Y.*  
 Michael Paul Dacquist *Pelham, N. Y.*  
 Anthony Louis Danza, A.B. *Brooklyn, N. Y.*  
 Earle Marshall Davis *Reading, Mass.*  
 Ernest Russell Deitch *Kirkville, Iowa*  
 Joseph Mortimer Fennell, Jr., B.S. *Bridgeport, Conn.*  
 Noel Charles Galen *New York, N. Y.*  
 Robert Dore Gittler *New York, N. Y.*
- Charles Henry Goyette, Jr. *Barre*  
 Franklin Kittridge Hudson, A.B. *Pittsford*  
 Robert John Jake *Milwaukee, Wis.*  
 Frank Joseph Jasinski, B.S. *New Britain, Conn.*  
 Bernard Joseph Kaplan, B.S. *Hartford, Conn.*  
 Elton Benjamin Lahar *Concord, N. H.*  
 Arthur Gregory Law *Washington, D. C.*  
 Patrick Francis McCormack, Jr. *West Rutland*  
 Jacqueline McCormick *St. Albans*  
 John James McCutcheon, Jr. *Elizabeth, N. J.*  
 Arthur William McMahon, Jr. *Portsmouth, N. H.*  
 Harold John Malone, A.B. *New Britain, Conn.*

Carmen Mary Pallotta, B.S.	Ludlow	William Vincent Shyne, Jr. B.S.	Norwood, Mass.
Hannah Hildreth Pendergast	University Park, Md.	John Stephen Sickles	Pearl River, N. Y.
Frank Ivan Pitkin	Montpelier	Eunice Marie Simmons, A.B.	Montpelier
Earle Winslow Rice	Worcester, Mass.	Harriet Theresa Sullivan	Brooklyn, N. Y.
Donald Edward Rock	Ludlow	Enhew Sycz	Ravenna, Ohio
Leo James Schildhaus, B.S.	Burlington	Eugene Randolph Tompkins, Jr.	Hartford, Conn.
Roger Warren Sevy	Salt Lake City, Utah		
Edward Silliman Sherwood	Mt. Vernon, N. Y.		

## VERMONT DEPARTMENT OF PUBLIC HEALTH

State Board of Health: Charles G. Abell, M.D., Enosburg Falls, Chairman; Claude M. Campbell, M.D., Manchester Center; Clarence H. Burr, M.D., Montpelier; Charles F. Dalton, M.D., Secretary and Executive Officer, Burlington; C. F. Whitney, M.D., Director of Laboratory; F. S. Kent,\* M.D., Director Communicable Disease Division; E. L. Tracy, Director Sanitary Engineering Division; W. B. Farnham, M.S., Chief Chemist; H. W. Slocum, A.B., Director Tuberculosis Division; Lillian E. Kron, R.N., Crippled Children's Division; Nellie M. Jones, R.N., Public Health Nursing; P. D. Clark,\* M.D., Maternal and Child Health; Viola Russell, M.D., Acting Director, Maternal and Child Health; R. B. Aiken, M.D., Industrial Hygiene, Acting Director, Communicable Disease Division.

The State Board of Health is responsible for the public health work of the State, including the control of communicable diseases, supervision of food and milk supplies, supervision of public water supplies, and sewage disposal, sanitation of schoolhouses and public buildings, inspection and licensing of hotels, restaurants, tourist houses, and bakeries, abatement of nuisances, educational work against tuberculosis, control of venereal diseases, physical rehabilitation of crippled children, and registration of vital statistics.

It maintains a laboratory of hygiene at Burlington in the same building where its own work is done, and employs a sanitary engineer and several inspectors.

The State Board of Health is intimately connected with the College of Medicine of the University, the Secretary, Doctor Dalton, being Professor Emeritus of Public Health, while the Director of the Laboratory of Hygiene, Doctor Whitney, is Professor Emeritus of Toxicology and Biochemistry, and E. L. Tracy, Director, Sanitary Engineering Division, is Instructor in Public Health. In connection with the Division of Maternal and Child Health, and in cooperation with local committees it maintains thirteen nursing units which include sixty-eight towns of the state.

\* On leave of absence for military duty.

## MEDICAL FRATERNITIES AND SOCIETIES

Beta Pi, Delta Mu, Chapter of Nu Sigma Nu (Founded 1880)	49 N. Prospect St.
Alpha Gamma Sigma (For Women, Founded at University of Vermont, 1924)	
Alpha Chapter of Phi Chi (Founded at University of Vermont, 1889)	16 Wilson St.
Phi Delta Epsilon	51 Loomis St.

## THE OSLER CLINICAL SOCIETY

The Osler Clinical Society, which was organized in <sup>1929</sup>~~1932~~, is composed of all undergraduate students in the College of Medicine. In addition to acting as a student governing body, the society sponsors a series of lectures given by outstanding men in the field of medicine. It is supported by a student fee. The organization is governed by a board of executive officers elected annually by the members. The president for 1945 is Thomas J. Keighley.

## OFFICERS OF THE U. V. M. MEDICAL ALUMNI ASSOCIATION — 1945

*President*—DR. WM. A. R. CHAPIN, '15, Springfield, Mass.

*Vice-Presidents*—DR. CHARLES E. HARWOOD, '32, Waterbury.

DR. MICHAEL F. CERASOLI, '30, Barre

DR. JAMES P. MARR, '24, New York, N. Y.

DR. STANLEY A. WILSON, '20, Salem, Mass.

*Secretary-Treasurer*—DR. PETER P. LAWLOR, '20, Burlington

*Executive Committee*—DR. E. LYMAN AMIDON, '32, Burlington; DR. J. FREDERICK LYNCH, '34, Burlington; DR. WILLIAM J. SLAVIN, JR., '35, Burlington

*Obituary Committee*—DR. C. A. NEWHALL, '28, Burlington; DR. FRANK J. LAWLISS, '23, Richford; DR. J. C. O'NEIL, '17, Waterbury